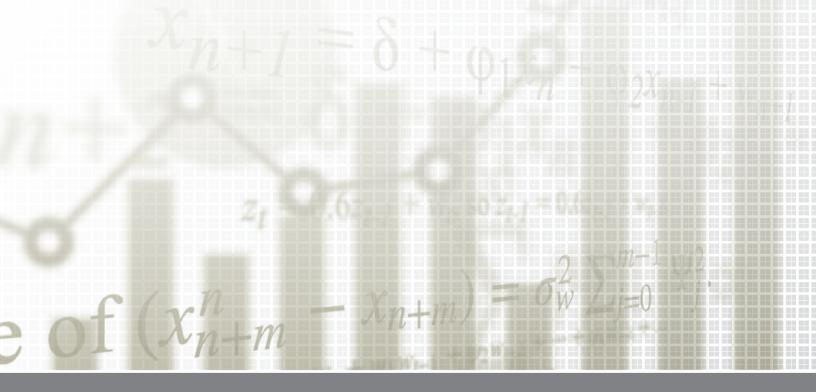


Guided Pathway Study Series: 5 of 8

Labor Market and Completion Data: Visual and Performing Arts, Digital Media, and Design Programs



Research Report No. 68-16

Office of Institutional Effectiveness and Student Success Initiatives
NOVEMBER 2016

NORTHERN VIRGINIA COMMUNITY COLLEGE

OFFICE OF INSTITUTIONAL EFFECTIVENESS AND STUDENT SUCCESS INITIATIVES

The purpose of the Office of Institutional Effectiveness and Student Success Initiatives is to conduct analytical studies and provide information in support of institutional planning, policy formulation, and decision making. In addition, the office provides leadership and support in research related activities to members of the NOVA community engaged in planning and evaluating the institution's success in accomplishing its mission.

When citing data from this report, the Northern Virginia Community College (NOVA) Office of Institutional Effectiveness and Student Success Initiatives must be cited as the source.

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Visual and Performing Arts, Digital Media, and Design Programs

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Visual and Performing Arts, Digital Media, and Design Programs

Introduction

This Report presents NOVA, regional, and national academic program and occupational data related to Visual and Performing Arts, Digital Media, and Design programs at NOVA. Regional data includes the following nine locations: Arlington County, Fairfax County, Loudoun County, Prince William County, Stafford County, Alexandria City, Fairfax City, Falls Church City, Manassas City, and Manassas Park City.

Every postsecondary degree/certificate program in the U.S. falls under a six-digit Classification of Instructional Programs (CIP) Code as developed by the U.S. Department of Education's National Center for Education Statistics (NCES). The purpose of the CIP Code is to provide a taxonomic scheme that will support the accurate tracking, assessment, and reporting of fields of study and program completions activity. A list of NOVA programs and their corresponding CIP codes is provided in the Appendix of this report.

All NOVA degree and certificate programs have been grouped into the following eight Guided Pathways: Biology and Biotechnology; Business; Health Sciences; Information Technology, Computer Science, and Mathematics; Liberal Arts and Social Science; Physical Science, Engineering, and Applied Technologies; Public Service, Social Service, and Education; and Visual and Performing Arts, Digital Media, and Design Programs. A list of the programs included in each Guided Pathway is included in the Appendix of this report.

Within this report on the Visual and Performing Arts, Digital Media, and Design Guided Pathway, there are ten sections. Six tables are presented for each section in this report. The first table of each section presents data on NOVA completions. The second through sixth tables present data related to the CIP Code that corresponds to the program(s) in that section.

NOVA Program Data

- Table 1. Five-Year Completion Trends by NOVA Program: 2011 through 2015
 - Table 1 presents five-year trends in degree or certificate completion at NOVA by NOVA program and specialization.

Data by Program (CIP) Code

- Table 2. Five-Year Completion Trends: 2011 through 2015
 - Table 2 presents five-year trends in degree or certificate completion at NOVA, in the Northern Virginia region, and at the state and national levels.

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¹https://nces.ed.gov/pubs2002/cip2000/

• Table 3. Regional Completions by Award: 2015

 Table 3 presents the number and percentage of completions in the Northern Virginia region by award level (Associate's degree, Bachelor's degree, Master's degree, etc.) in 2015.

Table 4. Regional Completions by Institution and Award: 2015

 Table 4 presents all completions in the Northern Virginia region by institution and award level in 2015.

Table 5. Five-Year Projections for Target Occupations: 2016 through 2021

- Table 5 presents workforce data and five-year projections for occupations related to the academic program and includes the number of jobs in each occupation in 2016, annual openings, median hourly earnings, projected growth from 2016 to 2021, and the Location Quotient of each occupation.
- The Location Quotient is the ratio of an occupation's share of employment in a given area to that occupation's share of employment in the U.S. as a whole. For example, an occupation that makes up 10 percent of employment in a specific metropolitan area compared with 2 percent of U.S. employment would have a location quotient of 5 for the area in question.

Table 6. National Educational Attainment of Target Occupations: 2016

 Table 6 breaks down each target occupation by the highest degree attained by workers in that occupation in 2016.

Data Note

Data were extracted utilizing the Economic Modeling Specialists International (EMSI) product EMSI Analyst, which compiles data from over 90 sources, including the Integrated Postsecondary Education Data System (IPEDS), the U.S. Census Bureau, the Bureau of Labor Statistics, and the Internal Revenue Service. The data were pulled between November 1st and November 8th, 2016. More information on EMSI can be found at www.economicmodeling.com/data.

Programs: Communication Design, A.A.S. (incl. specializations) Multimedia Design, Certificate

Table 1. Five-Year Completion Trends by NOVA Program: 2011 through 2015

NOVA Program	2011 Completions	2015 Completions	% Change
Communication Design, A.A.S.	23	26	13.0%
Communication Design/Interactive Design Specialization, A.A.S.	7	17	142.9%
Multimedia Design, Certificate	2	1	-50.0%
NOVA Completions	32	44	37.5%

Trends for CIP Code: Design and Visual Communications, General (50.0401)

Table 2. Five-Year Completion Trends: 2011 through 2015

Location	2011 Completions	2015 Completions	% Change
NOVA	32	45	40.6%
Region	79	45	-43.0%
State	288	225	-21.9%
Nation	6,260	5,744	-8.2%

Note: This CIP Code encompasses other NOVA programs not included in this Guided Pathway

Table 3. Regional Completions by Award: 2015

Award Laval	Completions			
Award Level	#	%		
Certificate	2	4.4%		
Associate's Degree	43	95.6%		
Total	45	100.0%		

Table 4. Regional Completions by Institution and Award: 2015

Institution	Certificate # %			ciate's Jree	Total	
			#	%	#	%
NOVA	2	100.0%	43	100.0%	45	100.0%
Total	2	100.0%	43	100.0%	45	100.0%

Table 5. Five-Year Projections for Target Occupations: 2016 through 2021

Occupation	2016 Jobs	Annual Openings	Median Hourly Earnings	Projected Growth (2016–2021)	Location Quotient (2016)*			
Graphic Designers	2,664	95	\$32.21	4.5%	1.47			
Commercial and Industrial Designers	91	4	\$30.56	7.7%	0.32			
Set and Exhibit Designers	77	3	\$32.32	5.2%	0.70			
Designers, All Other	36	1	\$22.34	2.8%	0.61			
Regional	2,867	103	\$32.04	4.6%	1.40**			
National	263,028	7,119	\$24.44	1.5%	1.00			

^{*}See Introduction for explanation of Location Quotient.

^{**}Weighted average of the Location Quotients for all Target Occupations.

Table 6. National Educational Attainment of Target Occupations: 2016

Occupation	< High School Diploma	High School Diploma or Equivalent	Some College, No Degree	Associate's Degree	Bachelor's Degree	Master's Degree	Doctoral Degree
Graphic Designers	2.3%	9.8%	17.6%	12.7%	47.4%	8.7%	1.4%
Commercial and Industrial Designers	2.3%	9.8%	17.6%	12.7%	47.4%	8.7%	1.4%
Set and Exhibit Designers	2.3%	9.8%	17.6%	12.7%	47.4%	8.7%	1.4%
Designers, All Other	2.3%	9.8%	17.6%	12.7%	47.4%	8.7%	1.4%

Program: Web Design Specialist, Career Studies Certificate

Table 1. Five-Year Completion Trends by NOVA Program: 2011 through 2015

NOVA Program	2011 Completions	2015 Completions	% Change
Web Design Specialist, Career Studies Certificate	12	9	-25.0%
NOVA Completions	12	9	-25.0%

Trends for CIP Code: Web Page, Digital/Multimedia and Information Resources Design (11.0801)

Table 2. Five-Year Completion Trends: 2011 through 2015

Location	2011 Completions	2015 Completions	% Change
NOVA	21	22	4.8%
Region	40	84	110.0%
State	98	139	41.8%
Nation	6,181	5,972	-3.4%

Note: This CIP Code encompasses other NOVA programs not included in this Guided Pathway.

Table 3. Regional Completions by Award: 2015

Assemble soci	Completions		
Award Level	#	%	
Certificate	23	27.4%	
Associate's Degree	18	21.4%	
Bachelor's Degree	43	51.2%	
Total	84	100.0%	

Table 4. Regional Completions by Institution and Award: 2015

Institution	Certificate		Associate's Degree		Bachelor's Degree		Total	
	#	%	#	%	#	%	#	%
NOVA	22	95.7%	0	0.0%	0	0.0%	22	26.2%
The Art Institute of Washington	1	4.3%	13	72.2%	11	25.6%	25	29.8%
DeVry University – Virginia	0	0.0%	2	11.1%	17	39.5%	19	22.6%
The Art Institute of Washington-Dulles	0	0.0%	3	16.7%	15	34.9%	18	21.4%
Total	23	100.0%	18	100.0%	43	100.0%	84	100.0%

Table 5. Five-Year Projections for Target Occupations: 2016 through 2021

Occupation	2016 Jobs	Annual Openings	Median Hourly Earnings	Projected Growth (2016–2021)	Location Quotient (2016)*
Information Security Analysts	7,998	262	\$53.37	9.5%	9.96
Computer Network Architects	6,272	167	\$55.61	6.5%	4.79
Graphic Designers	2,664	95	\$32.21	4.5%	1.47
Web Developers	2,446	136	\$42.58	20.6%	2.10
Multimedia Artists and Animators	204	10	\$34.56	15.2%	0.74
Regional	19,584	670	\$49.76	9.3%	6.07**
National	623,091	20,052	\$34.89	7.3%	1.00

^{*}See Introduction for explanation of Location Quotient*See Introduction for explanation of Location Quotient.
**Weighted average of the Location Quotients for all Target Occupations.

Table 6. National Educational Attainment of Target Occupations: 2016

Occupation	< High School Diploma	High School Diploma or Equivalent	Some College, No Degree	Associate's Degree	Bachelor's Degree	Master's Degree	Doctoral Degree
Information Security Analysts	0.8%	5.5%	18.7%	8.9%	44.6%	20.2%	1.4%
Computer Network Architects	0.2%	5.4%	23.3%	13.7%	40.4%	15.8%	1.2%
Graphic Designers	2.3%	9.8%	17.6%	12.7%	47.4%	8.7%	1.4%
Web Developers	0.5%	4.3%	17.3%	9.9%	52.2%	14.6%	1.2%
Multimedia Artists and Animators	3.0%	10.7%	18.4%	9.0%	45.0%	12.0%	1.9%

Program: Fine Arts, A.A.

Table 1. Five-Year Completion Trends by NOVA Program: 2011 through 2015

NOVA Program	2011 Completions	2015 Completions	% Change
Fine Arts, A.A.	50	35	-30.0%
NOVA Completions	50	35	-30.0%

Trends for CIP Code: Visual and Performing Arts, General (50.0101)

Table 2. Five-Year Completion Trends: 2011 through 2015

Location	2011 Completions	2015 Completions	% Change
NOVA	69	50	-27.5%
Region	201	175	-12.9%
State	391	350	-10.5%
Nation	2,657	3,066	15.4%

Table 3. Regional Completions by Award: 2015

Award Laval	Completions				
Award Level	#	%			
Certificate	2	1.1%			
Associate's Degree	48	27.4%			
Bachelor's Degree	119	68.0%			
Master's Degree	6	3.4%			
Total	175	100.0%			

Table 4. Regional Completions by Institution and Award: 2015

Institution	Certificate		Associate's Degree		Bachelor's Degree		Master's Degree		Total	
	#	%	#	%	#	%	#	%	#	%
NOVA	2	100.0%	48	100.0%	0	0.0%	0	0.0%	50	28.6%
George Mason University	0	0.0%	0	0.0%	119	100.0%	6	100.0%	125	71.4%
Total	2	100.0%	48	100.0%	119	100.0%	6	100.0%	175	100.0%

Table 5. Five-Year Projections for Target Occupations: 2016 through 2021

	<u> </u>				
Occupation	2016 Jobs	Annual Openings	Median Hourly Earnings	Projected Growth (2016–2021)	Location Quotient (2016)*
Photographers	390	11	\$21.78	-13.1%	0.93
Artists and Related Workers, All Other	120	3	\$45.64	0.8%	1.71
Fine Artists, Including Painters, Sculptors, and Illustrators	36	1	\$26.68	8.3%	0.33
Craft Artists	12	0	\$26.67	8.3%	0.26
Regional	558	15	\$27.44	-8.4%	1.04**
National	75,125	1,762	\$19.27	-3.5%	1.00

^{*}See Introduction for explanation of Location Quotient.

^{**}Weighted average of the Location Quotients for all Target Occupations.

Table 6. National Educational Attainment of Target Occupations: 2016

Occupation	< High School Diploma	High School Diploma or Equivalent	Some College, No Degree	Associate's Degree	Bachelor's Degree	Master's Degree	Doctoral Degree
Photographers	2.4%	11.7%	22.8%	10.2%	44.1%	7.0%	1.7%
Artists and Related Workers, All Other	3.0%	10.7%	18.4%	9.0%	45.0%	12.0%	1.9%
Fine Artists, Including Painters, Sculptors, and Illustrators	3.0%	10.7%	18.4%	9.0%	45.0%	12.0%	1.9%
Craft Artists	3.0%	10.7%	18.4%	9.0%	45.0%	12.0%	1.9%

Program: Fine Arts, A.A.A. (incl. specializations)

Table 1. Five-Year Completion Trends by NOVA Program: 2011 through 2015

NOVA Program	2011 Completions	2015 Completions	% Change
Fine Arts, A.A.A.	11	12	9.1%
Fine Arts/Photography Specialization, A.A.A.	4	2	-50.0%
NOVA Completions	15	14	-6.7%

Trends for CIP Code: Visual and Performing Arts, Other (50.9999)

Table 2. Five-Year Completion Trends: 2011 through 2015

Location	2011 Completions	2015 Completions	% Change
NOVA	15	14	-6.7%
Region	15	14	-6.7%
State	93	115	23.7%
Nation	1,536	1,059	-31.1%

Table 3. Regional Completions by Award: 2015

Award Level	Completions			
Award Level	#	%		
Associate's Degree	14	100.0%		
Total	14	100.0%		

Table 4. Regional Completions by Institution and Award: 2015

Inatitution	Associate	's Degree	Total		
Institution	#	%	#	%	
NOVA	14	100.0%	14	100.0%	
Total	14	100.0%	14	100.0%	

Table 5. Five-Year Projections for Target Occupations: 2016 through 2021

	•		•		
Occupation	2016 Jobs	Annual Openings	Median Hourly Earnings	Projected Growth (2016–2021)	Location Quotient (2016)*
Musicians and Singers	386	18	\$27.30	4.9%	1.18
Artists and Related Workers, All Other	120	3	\$45.64	0.8%	1.71
Regional	506	21	\$31.91	4.2%	1.31**
National	45,917	1,531	\$28.04	2.8%	1.00

^{*}See Introduction for explanation of Location Quotient.

Table 6. National Educational Attainment of Target Occupations: 2016

					•		
Occupation	< High School Diploma	High School Diploma or Equivalent	Some College, No Degree	Associate's Degree	Bachelor's Degree	Master's Degree	Doctoral Degree
Musicians and Singers	4.0%	13.8%	22.2%	5.2%	30.8%	19.3%	4.7%
Artists and Related Workers, All Other	3.0%	10.7%	18.4%	9.0%	45.0%	12.0%	1.9%

^{**}Weighted average of the Location Quotients for all Target Occupations.

Program: Interior Design, A.A.S.

Table 1. Five-Year Completion Trends by NOVA Program: 2011 through 2015

NOVA Program	2011 Completions	2015 Completions	% Change
Interior Design, A.A.S.	25	21	-16.0%
NOVA Completions	25	21	-16.0%

Trends for CIP Code: Interior Design (50.0408)

Table 2. Five-Year Completion Trends: 2011 through 2015

Location	2011 Completions	2015 Completions	% Change
NOVA	25	21	-16.0%
Region	100	65	-35.0%
State	180	155	-13.9%
Nation	7,575	5,937	-21.6%

Table 3. Regional Completions by Award: 2015

Assemble sol	Comp	letions
Award Level	#	%
Associate's Degree	21	32.3%
Bachelor's Degree	38	58.5%
Master's Degree	6	9.2%
Total	65	100.0%

Table 4. Regional Completions by Institution and Award: 2015

Institution		Associate's Degree		Bachelor's Degree		Master's Degree		Total	
	#	%	#	%	#	%	#	%	
NOVA	21	100.0%	0	0.0%	0	0.00%	21	32.3%	
Marymount University	0	0.0%	25	65.8%	6	100.0%	31	47.7%	
The Art Institute of Washington	0	0.0%	11	28.9%	0	0.0%	11	16.9%	
Westwood College – Annandale	0	0.0%	1	2.6%	0	0.0%	1	1.5%	
The Art Institute of Washington-Dulles	0	0.0%	1	2.6%	0	0.0%	1	1.5%	
Total	21	100.0%	38	100.0%	6	100.0%	65	100.0%	

Table 5. Five-Year Projections for Target Occupations: 2016 through 2021

Occupation	2016 Jobs	Annual Openings	Median Hourly Earnings	Projected Growth (2016–2021)	Location Quotient (2016)*
Interior Designers	470	13	\$31.45	-4.5%	1.02
Regional	470	13	\$31.45	-4.5%	1.02
National	53,474	1,450	\$24.13	1.6%	1.00

^{*}See Introduction for explanation of Location Quotient

Table 6. National Educational Attainment of Target Occupations: 2016

Occupation	< High School Diploma	High School Diploma or Equivalent	Some College, No Degree	Associate's Degree	Bachelor's Degree	Master's Degree	Doctoral Degree
Interior Designers	2.3%	9.8%	17.6%	12.7%	47.4%	8.7%	1.4%

Program: Music, A.A.

Table 1. Five-Year Completion Trends by NOVA Program: 2011 through 2015

NOVA Program	2011 Completions	2015 Completions	% Change
Music, A.A.	4	6	50.0%
NOVA Completions	4	6	50.0%

Program: Music, A.A.A. (incl. specializations)

Table 1. Five-Year Completion Trends by NOVA Program: 2011 through 2015

NOVA Program	2011 Completions	2015 Completions	% Change
Music, A.A.A.	9	7	-22.2%
Music/Jazz/Popular Music Specialization, A.A.A.	2	0	
NOVA Completions	15	13	-13.3%

Program: Theatre, Career Studies Certificate

Table 1. Five-Year Completion Trends by NOVA Program: 2011 through 2015

NOVA Program	2011 Completions	2015 Completions	% Change
Theatre, Career Studies Certificate	4	2	-50.0%
NOVA Completions	4	2	-50.0%

Trends for Visual and Performing Arts, General (CIP Code 50.0101) See Page 7

Program: Music Recording Technology, Certificate

Table 1. Five-Year Completion Trends by NOVA Program: 2011 through 2015

NOVA Program	2011 Completions	2015 Completions	% Change
Music Recording Technology, Certificate	4	6	50.0%
NOVA Completions	4	6	50.0%

Trends for CIP Code: Audiovisual Communications Technologies/Technicians, Other (10.0299)

Table 2. Five-Year Completion Trends: 2011 through 2015

Location	2011 Completions	2015 Completions	% Change
NOVA	4	6	50.0%
Region	<10	<10	
State	<10	<10	
Nation	287	331	15.3%

Table 3. Regional Completions by Award: 2015

Award Level	Comp	etions
	#	%
Certificate	6	100.0%
Total	6	100.0%

Table 4. Regional Completions by Institution and Award: 2015

Institution	Certif	ficate	Total		
Institution	#	%	#	%	
NOVA	6	100.0%	6	100.0%	
Total	6	100.0%	6	100.0%	

Table 5. Five-Year Projections for Target Occupations: 2016 through 2021

Occupation	2016 Jobs	Annual Openings	Median Hourly Earnings	Projected Growth (2016–2021)	Location Quotient (2016)*
Media and Communication Equipment Workers, All Other	221	4	\$49.22	-2.7%	1.37
Broadcast Technicians	173	7	\$32.60	6.9%	0.73
Media and Communication Workers, All Other	116	3	\$31.00	4.3%	0.58
Audio-Visual and Multimedia Collections Specialists	97	3	\$20.62	8.2%	1.15
Film and Video Editors	80	2	\$37.32	8.8%	0.33
Camera Operators, Television, Video, and Motion Picture	61	2	\$42.25	4.9%	0.35
Regional	749	21	\$37.01	3.7%	0.88**
National	128,157	2,784	\$26.04	3.3%	1.00

^{*}See Introduction for explanation of Location Quotient.

^{**}Weighted average of the Location Quotients for all Target Occupations.

Table 6. National Educational Attainment of Target Occupations: 2016

Occupation	< High School Diploma	High School Diploma or Equivalent	Some College, No Degree	Associate's Degree	Bachelor's Degree	Master's Degree	Doctoral Degree
Media and Communication Equipment Workers, All Other	3.1%	14.8%	28.5%	16.2%	33.0%	3.8%	0.6%
Broadcast Technicians	3.1%	14.8%	28.5%	16.2%	33.0%	3.8%	0.6%
Media and Communication Workers, All Other	2.9%	11.3%	22.4%	13.6%	30.9%	14.4%	4.5%
Audio-Visual and Multimedia Collections Specialists	0.8%	5.6%	10.7%	5.3%	30.6%	39.0%	8.0%
Film and Video Editors	0.7%	9.3%	18.9%	8.8%	53.0%	8.3%	1.0%
Camera Operators, Television, Video, and Motion Picture	0.7%	9.3%	18.9%	8.8%	53.0%	8.3%	1.0%

Program: Photography and Media, A.A.S.

Table 1. Five-Year Completion Trends by NOVA Program: 2011 through 2015

NOVA Program	2011 Completions	2015 Completions	% Change
Photography and Media, A.A.S.	13	13	0.0%
NOVA Completions	13	13	0.0%

Trends for CIP Code: Photography (50.0605)

Table 2. Five-Year Completion Trends: 2011 through 2015

Location	2011 Completions	2015 Completions	% Change
NOVA	13	13	0.0%
Region	14	13	-7.1%
State	94	80	-14.9%
Nation	3,180	3,160	-0.6%

Table 3. Regional Completions by Award: 2015

Award Lavel	Comple	tions
Award Level	#	%
Associate's Degree	13	100.0%
Total	13	100.0%

Table 4. Regional Completions by Institution and Award: 2015

Inatitution	Associate	's Degree	Total		
Institution	#	%	#	%	
NOVA	13	100.0%	13	100.0%	
Total	13	100.0%	13	100.0%	

Table 5. Five-Year Projections for Target Occupations: 2016 through 2021

Occupation	2016 Jobs	Annual Openings	Median Hourly Earnings	Projected Growth (2016–2021)	Location Quotient (2016)*
Photographers	390	11	\$21.78	-13.1%	0.93
Regional	390	11	\$21.78	-13.1%	0.93
National	48,837	1,137	\$16.90	-6.6%	1.00

Table 6. National Educational Attainment of Target Occupations: 2016

Occupation	< High School Diploma	High School Diploma or Equivalent	Some College, No Degree	Associate's Degree	Bachelor's Degree	Master's Degree	Doctoral Degree
Photographers	2.4%	11.7%	22.8%	10.2%	44.1%	7.0%	1.7%

Appendix Table 1. CIP Codes, NOVA Programs, and NOVA Completions: 2011 and 2015

Appendix

CIP Code NOVA 2011 2015 CIP Code Description **NOVA Program** Completions Completions Horticulture Technology, A.A.S. 0 Applied Horticulture/Horticulture 01.0601 Horticulture Technology/Landscape Design Specialization. Operations, General 5 A.A.S. Architectural 04.0901 Architecture Technology, A.A.S. 15 25 Technology/Technician Audiovisual Communications 10.0299 Music Recording Technology, Certificate 4 6 Technologies/Technicians, Other Information Systems Technology, A.A.S. 49 69 Application Programming, CSC 12 Computer and Information 11.0101 Sciences, General 2 Database Specialist, CSC 22 IT Technical Support, CSC 7 23 11.0103 Information Technology Information Technology, A.S. 362 278 11.0701 Computer Science Computer Science, A.S. 61 135 Web Page, Digital/Multimedia Web Design and Development, CSC 2 13 11.0801 and Information Resources Web Design Specialist, CSC 12 9 Design Computer and Information Systems Security/Information 11.1003 CyberSecurity, A.A.S. 4 Assurance Cooking and Related Culinary Culinary Arts, Certificate 8 12.0500 10 Arts, General Teacher Assistant/Aide Paraprofessional Teacher Assistant, CSC[†] 13.1501 9 8 Engineering, A.S. 68 86 14.0101 Engineering, General Engineering/Electrical Engineering Specialization, A.S. 47 71 Surveying Engineering Geographic Information Systems (GIS), CSC 14.3801 8 10 Engineering Technology, A.A.S. 0 1 Engineering Technology, Engineering Technology/Civil Engineering Technology 15.0000 General 3 5

Specialization, A.A.S.

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	CIP Code	NOVA		
CIP Code	Description	NOVA Program	2011 Completions	2015 Completions
		Engineering Technology/Drafting Specialization, A.A.S.	1	1
		Engineering Technology/Mechanical Engineering Technology Specialization, A.A.S.	2	3
15.0201	Civil Engineering Technology/Technician	Site Development, CSC (formerly Land Planning, Survey, and Development)	1	0
	Electrical, Electronic and	Cybersecurity, CSC (formerly Network Security)	5	35
15.0303	Communications Engineering	Network Administration, CSC	7	15
	Technology/Technician	Network Engineering (Specialist), CSC	8	26
15.1302	CAD/CADD Drafting and/or Design Technology/Technician	Computer Aided Drafting and Design, CSC	23	21
15.1303	Architectural Drafting and Architectural CAD/CADD	Architectural Drafting, Certificate	9	9
16.1603	Sign Language Interpretation	American Sign Language to English Interpretation, A.A.S.	8	8
and Translation	American Sign Language, CSC	10	10	
		Early Childhood Development, A.A.S.	28	57
		Early Childhood Development/School-Age Child Specialization, A.A.S. [†]	1	5
19.0709	Child Care Provider/Assistant	Early Childhood Development, Certificate	35	35
		Early Childhood Development, CSC	20	71
		Infant and Toddler Care, CSC	9	12
22.0302	Legal Assistant/Paralegal	Paralegal Studies, A.A.S.	40	41
23.1303	Professional, Technical, Business, and Scientific Writing	Professional Writing, Certificate	3	2
		General Studies, A.S.	1,131	1,468
24.0102	General Studies	General Studies/Recreation, Parks, and Leisure Studies Specialization, A.S.	6	8
		Liberal Arts, A.A.	367	321
		Liberal Arts/Art History Specialization, A.A.	3	2
24.0103	Humanities/Humanistic Studies	Liberal Arts/Communication Studies Specialization, A.A.	19	22
		Liberal Arts/English Specialization, A.A.		3
		Liberal Arts/International Studies Specialization, A.A.	47	33

	CIP Code	NOVA		
CIP Code	Description	NOVA Program	2011 Completions	2015 Completions
		Liberal Arts/Psychology Specialization, A.A.	39	34
		African-American Studies, CSC [†]	0	0
		Chinese Studies, CSC [†]	2	0
		Japanese Studies, CSC [†]	2	2
		Latin American Studies, CSC [†]	2	6
		Public History and Historic Preservation, CSC (formerly Historic Preservation)	7	2
24.0199	Liberal Arts and Sciences, General Studies and Humanities, Other	General Education, Certificate	1,142	890
30.0101	Biological and Physical Sciences	Science, A.S.	237	327
30.0101	Biological and Physical Sciences	Science/Mathematics Specialization, A.S.	31	45
	Parks, Recreation and Leisure Facilities Management, General	Fitness, CSC	7	18
31.0301		Outdoor Recreation and Resource Management, CSC	0	0
		Recreation Programming and Administration, CSC	1	0
	Biology	Biotechnology, A.A.S.	1	9
41.0101	Biology Technician/Biotechnology Laboratory Technician	Biotechnology Lab Technician, CSC	0	5
		Administration of Justice, A.A.S.	61	89
43.0103	Criminal Justice/Law	Administration of Justice, Certificate	22	20
45.0105	Enforcement Administration	National Security, CSC	0	7
		Security Management, CSC	1	1
43.0106	Forensic Science and	Forensic Investigation (Advanced), CSC	1	2
43.0100	Technology	Forensic Investigation (General), CSC	7	3
43.0203	Fire Science/Fire-fighting	Fire Science Technology, A.A.S.	1	2
		Social Sciences, A.S.	323	391
		Social Sciences/Deaf Studies Specialization, A.S.	3	2
45.0101	Social Sciences, General	Social Sciences/Geospatial Specialization, A.S.		2
		Social Sciences/Political Science Specialization, A.S.	3	31
		Social Sciences/Psychology Specialization, A.S.	102	138

CIP Code		NOVA		
CIP Code	Description	NOVA Program	2011 Completions	2015 Completions
		Social Sciences/Teacher Education Specialization, A.S.	59	99
		Drivers Education, CSC	3	1
46.0000	Construction Trades, General	Construction Management Technology, A.A.S.	7	14
		Construction Supervision, CSC	3	11
	Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/ Technician.	Air Conditioning and Refrigeration, A.A.S.	17	33
47.0201		Air Conditioning and Refrigeration, Certificate	17	18
		HVAC-R and Facilities Services Technology, CSC	11	29
		Automotive Technology, A.A.S.	23	26
47.0004	Automobile/Automotive	Automotive Technology/Emissions Specialization, A.A.S.	6	5
47.0604	Mechanics Technology/ Technician	Automotive Maintenance and Light Repair, CSC	10	12
	1 och modern	Collision Repair Technology, CSC	3	6
47.0605	Diesel Mechanics Technology/Technician	Diesel Mechanics Technology, CSC	1	0
48.0508	Welding Technology/Welder	Welding: Basic Techniques, CSC	1	13
	Visual and Performing Arts, General	Fine Arts, A.A.	50	35
		Music, A.A.	4	6
50.0101		Music, A.A.A.	9	7
		Music/Jazz/Popular Music Specialization, A.A.A.	2	0
		Theatre, CSC	4	2
	Design and Visual Communications, General	Communication Design, A.A.S.	23	26
50.0401		Communication Design/Interactive Design Specialization, A.A.S.	7	17
		Multimedia Design, Certificate	2	1
		Electronic Media in Design, Rendering, and Animation, CSC [†]	0	1
50.0408	Interior Design	Interior Design, A.A.S.	25	21
50.0605	Photography	Photography and Media, A.A.S.	13	13
50.9999	Visual and Performing Arts, Other	Fine Arts, A.A.A.	11	12
		Fine Arts/Photography Specialization, A.A.A.	4	2

CIP Code		NOVA		
CIP Code	Description	NOVA Program	2011 Completions	2015 Completions
51.0601	Dental Assisting/Assistant	Dental Assisting, Certificate		0
51.0602	Dental Hygiene/Hygienist	Dental Hygiene, A.A.S.	38	37
	Health Information/Medical Records Technology/Technician	Health Information Management, A.A.S.	24	7
51.0707		Clinical Data Coding, CSC	15	16
		Health Information Technology, CSC		3
51.0799	Health and Medical Administrative Services, Other	Medical Transcription, CSC [†]	0	0
51.0803	Occupational Therapist Assistant	Occupational Therapy Assistant, A.A.S.		12
51.0806	Physical Therapy Technician/Assistant	Physical Therapist Assistant, A.A.S.	30	29
51.0808	Veterinary/Animal Health Technology/Technician and Veterinary Assistant	Veterinary Technology, A.A.S.	34	46
	Emergency Medical Technology/Technician (EMT Paramedic)	Emergency Medical Services, A.A.S.	19	29
51.0904		Emergency Medical Technician-Basic, CSC	0	16
51.0904		Emergency Medical Technician-Intermediate, CSC	0	36
		Paramedic, CSC	0	24
51.0907	Medical Radiologic Technology/Science – Radiation Therapist	Radiation Oncology, A.A.S. (Distance degree program offered through Virginia Western Community College)		
51.0908	Respiratory Care Therapy/Therapist	Respiratory Therapy, A.A.S.	15	21
51.0910	Diagnostic Medical Sonography/Sonographer and Ultrasound Technician	Diagnostic Medical Sonography, A.A.S.	7	8
51.0911	Radiologic Technology/Science - Radiographer	Radiography, A.A.S.	39	30
51.0999	Allied Health Diagnostic, Intervention, and Treatment Professions, Other	Health Science, CSC		18
54.4004	Clinical/Medical Laboratory Technician	Medical Laboratory Technology, A.A.S.	15	16
51.1004		Phlebotomy, CSC	23	25

CIP Code		NOVA		
CIP Code	Description	NOVA Program	2011 Completions	2015 Completions
51.1501	Substance Abuse/Addiction Counseling	Substance Abuse Rehabilitation Counselor, Certificate	9	16
51.3501	Massage Therapy/Therapeutic Massage	Massage Therapy, CSC	17	20
51.3801	Registered Nursing/Registered Nurse	Nursing, A.A.S.	210	148
52.0201	Business Administration and Management, General	Business Administration, A.S.	897	1,006
		Business Management, A.A.S.	27	35
		Business Management/Finance Specialization, A.A.S.†	2	5
	Business Administration, Management and Operations, Other	Business Management/Healthcare Administration Specialization, A.A.S. [†]	0	4
		Business Management/International Business Specialization, A.A.S.†	5	4
		Business Management/Public Management Specialization, A.A.S.†	0	0
		Contract Management, A.A.S.	4	5
		Marketing, A.A.S.	4	2
52.0299		Marketing/Digital Marketing Specialization, A.A.S.† (formerly e-Commerce Specialization)	0	1
02.0200		Marketing/International Marketing Specialization, A.A.S.†	1	1
		Marketing/Public Relations Specialization, A.A.S.†	1	4
		Contract Management, Certificate	12	6
		Business Information Technology, CSC	56	158
		Entrepreneurship, CSC	0	2
		Leadership Development, CSC	5	9
		Marketing, CSC	4	6
		Promotion and Public Relations, CSC	3	6
		Retail Management, CSC	2	3
		Social Media Marketing, CSC (formerly e-Commerce)	7	9
52.0399	Accounting and Related Services, Other	Accounting, A.A.S.	32	37
52.0399		Bookkeeping, Certificate	34	37

CIP Code		NOVA		
CIP Code	Description	NOVA Program	2011 Completions	2015 Completions
		Accounting, CSC	35	47
	Hospitality Administration/Management, General	Hospitality Management, A.A.S.	13	18
52.0901		Hospitality Management/Food Service Management Specialization, A.A.S.	5	5
		Hospitality Management/Hotel Management Specialization, A.A.S.	4	4
		Hospitality Management/Nutrition Management Specialization, A.A.S.	7	3
		Meeting, Event, and Exhibition Management, Certificate	9	7
52.0903	Tourism and Travel Services Management	Travel and Tourism, A.A.S.	2	1
		Travel and Tourism, Certificate	7	2
		Tour Guiding, CSC	4	3
52.1501	Real Estate	Real Estate Brokerage, Certificate	0	1
		Real Estate Brokerage, CSC	0	1

Source: National Center for Education Statistics (NCES) list of Classification of Instructional Programs (CIP) Codes. https://nces.ed.gov/ipeds/cipcode/

Appendix Table 2. List of NOVA Programs by Guided Pathway

NOVA Programs by Guided Pathway

- 1. Biology and Biotechnology Programs
 - Biotechnology, A.A.S.
 - o Biotechnology Lab Technician, Career Studies Certificate
 - Horticulture Technology, A.A.S.
 - Horticulture Technology, A.A.S./Landscape Design Specialization
 - Veterinary Technology, A.A.S.
- 2. Business Programs
 - Accounting A.A.S.
 - o Accounting, Career Studies Certificate
 - Bookkeeping, Certificate
 - Business Administration, A.S.
 - Business Management, A.A.S.
 - Business Management, A.A.S./Finance Specialization[†]
 - Business Management, A.A.S./Healthcare Administration Specialization[†]
 - Business Management, A.A.S./International Business Specialization[†]
 - Business Management, A.A.S./Public Management Specialization[†]
 - Business Information Technology, Career Studies Certificate
 - o Entrepreneurship, Career Studies Certificate
 - Leadership Development, Career Studies Certificate
 - Contract Management, A.A.S.
 - o Contract Management, Certificate
 - Hospitality Management, A.A.S.
 - o Hospitality Management, A.A.S./Food Service Management Specialization
 - o Hospitality Management, A.A.S./Hotel Management Specialization
 - o Hospitality Management, A.A.S. /Nutrition Management Specialization
 - Meeting, Event, and Exhibition Management, Certificate
 - Culinary Arts, Certificate
 - Marketing, A.A.S.
 - Marketing, A.A.S./Digital Marketing Specialization[†] (formerly e-Commerce Specialization)
 - Marketing, A.A.S./International Marketing Specialization[†]
 - Marketing, A.A.S./Public Relations Specialization[†]
 - Social Media, Career Studies Certificate (formerly e-Commerce)
 - Marketing, Career Studies Certificate
 - Promotion & Public Relations, Career Studies Certificate
 - o Retail Management, Career Studies Certificate
- 3. Health Sciences Programs
 - Dental Hygiene, A.A.S.
 - Dental Assisting, Certificate
 - Diagnostic Medical Sonography, A.A.S.
 - Emergency Medical Services, A.A.S.
 - o Emergency Medical Technician Basic, Career Studies Certificate

NOVA Programs by Guided Pathway

- o Emergency Medical Technician Intermediate, Career Studies Certificate
- o Paramedic, Career Studies Certificate
- Fire Science Technology, A.A.S.
- Fitness, Career Studies Certificate
- Health Information Management, A.A.S.
 - o Clinical Data Coding, Career Studies Certificate
 - o Health Information Technology, Career Studies Certificate
- Health Science, Career Studies Certificate
- Massage Therapy, Career Studies Certificate
- Medical Laboratory Technology, A.A.S.
 - o Phlebotomy, Career Studies Certificate
- Medical Transcription, Career Studies Certificate[†]
- Nursing, A.A.S.
- Occupational Therapy Assistant, A.A.S.
- Physical Therapist Assistant, A.A.S.
- Radiation Oncology, A.A.S. (Distance Learning program offered through VA Western CC)
- Radiography, A.A.S.
- Respiratory Therapy, A.A.S.
- 4. Information Technology, Computer Science, and Mathematics Programs

Information Technology and Computer Science Programs

- Computer Science, A.S.
- Cybersecurity, A.A.S.
- Cybersecurity, Career Studies Certificate (formerly Network Security)
 - o Network Administration, Career Studies Certificate
 - o Network Engineering (Specialist), Career Studies Certificate
- Information Systems Technology, A.A.S.
 - o Application Programming, Career Studies Certificate
 - o Database Specialist, Career Studies Certificate
 - IT Technical Support, Career Studies Certificate
- Information Technology, A.S.
- Web Design and Development, Career Studies Certificate
 - Web Design Specialist, Career Studies Certificate

Mathematics Programs

- Science, A.S./Mathematics Specialization
- 5. Liberal Arts and Social Science Programs

Liberal Arts Programs

- Liberal Arts A.A.
 - o Liberal Arts, A.A./Art History Specialization
 - o Liberal Arts, A.A./International Studies Specialization
 - o Liberal Arts, A.A./Psychology Specialization
 - o Liberal Arts, A.A./Communication Studies
 - Liberal Arts, A.A./English Specialization
 - African-American Studies, Career Studies Certificate†
 - Chinese Studies, Career Studies Certificate[†]

NOVA Programs by Guided Pathway

- Japanese Studies, Career Studies Certificate†
- Latin American, Studies Career Studies Certificate[†]
- Professional Writing, Certificate
- American Sign Language to English Interpretation, A.A.S.
 - o American Sign Language, Career Studies Certificate
- General Education, Certificate
- General Studies, A.S.
 - o General Studies, A.S./Recreation, Parks & Leisure Studies Specialization
- Outdoor Recreation and Resource Management, Career Studies Certificate
 - o Recreation Programming and Administration, Career Studies Certificate

Social Science Programs

- Social Sciences, A.S.
 - o Social Sciences, A.S./Deaf Studies Specialization
 - o Social Sciences, A.S./Political Science Specialization
 - o Social Sciences, A.S./Psychology Specialization
 - Social Sciences, A.S./Geospatial Specialization
- Public History and Historic Preservation, Career Studies Certificate (formerly Historic Preservation)
- 6. Physical Science, Engineering, and Applied Technologies Programs

Applied Technology Programs

- Architecture Technology, A.A.S.
- Architectural Drafting, Certificate
 - Air Conditioning and Refrigeration, A.A.S.
 - o Air Conditioning and Refrigeration, Certificate
 - HVAC-R and Facilities Services Technology, Career Studies Certificate
- Automotive Technology, A.A.S.
 - o Automotive Technology, A.A.S./Emissions Specialization
 - Automotive Maintenance and Light Repair, Career Studies Certificate
 - o Collision Repair Technology, Career Studies Certificate
- Diesel Mechanics Technology, Career Studies Certificate
- Construction Management Technology, A.A.S.
 - o Construction Supervision, Career Studies Certificate
- Engineering Technology, A.A.S.
 - o Engineering Technology, A.A.S./Civil Engineering Technology Specialization
 - Engineering Technology, A.A.S./Drafting Specialization
 - Engineering Technology, A.A.S./Mechanical Engineering Technology Specialization
- Computer Aided Drafting and Design, Career Studies Certificate
- Electronic Media in Design Rendering and Animation, Career Studies Certificate[†]
- Site Development, Career Studies Certificate (formerly Land Planning, Survey, and Development)
- Geographic Information Systems, Career Studies Certificate
- Welding/Basic Techniques, Career Studies Certificate

Physical Science and Engineering Programs

NOVA Programs by Guided Pathway

- Engineering, A.S.
 - o Engineering, A.S./Electrical Engineering Specialization
- Science, A.S.
- 7. Public Service, Social Service, and Education Programs

Public and Social Service Programs

- Administration of Justice, A.A.S.
 - o Administration of Justice, A.A.S./Homeland Security Specialization
 - o Administration of Justice, Certificate
 - o Security Management, Career Studies Certificate
 - National Security Career, Studies Certificate
- General Forensic Investigation, Career Studies Certificate
 - o Advanced Forensic Investigation, Career Studies Certificate
- Paralegal Studies, A.A.S.
- Substance Abuse Rehabilitation Counselor, Certificate

Education Programs

- Early Childhood Development, A.A.S.
 - Early Childhood Development, A.A.S./School-Age Child Specialization[†]
 - o Early Childhood Development, Certificate
 - o Infant and Toddler Care, Career Studies Certificate
 - o Early Childhood Development, Career Studies Certificate
- Paraprofessional Teacher Assistant, Career Studies Certificate[†]
- Social Sciences, A.S./Teacher Education Specialization
 - o Driver Education, Career Studies Certificate
- 8. Visual and Performing Arts, Digital Media, and Design Programs
 - Communication Design, A.A.S.
 - o Communication Design, A.A.S./Interactive Design Specialization
 - Multimedia Design, Certificate
 - Web Design Specialist, Career Studies Certificate
 - Fine Arts, A.A.
 - Fine Arts, A.A.A.
 - o Fine Arts, A.A.A./Photography Specialization
 - Interior Design, A.A.S.
 - Music, A.A.
 - Music, A.A.A.
 - o Music, A.A.A./Jazz/Popular Music Specialization
 - o Theatre, Career Studies Certificate
 - Music Recording Technology, Certificate
 - Photography and Media, A.A.S.

NOVA Mission and Strategic Goals

Mission

With commitment to the values of access, opportunity, student success, and excellence, the mission of Northern Virginia Community College is to deliver world-class in-person and online post-secondary teaching, learning, and workforce development to ensure our region and the Commonwealth of Virginia have an educated population and globally competitive workforce.

Strategic Goals

- I. STUDENT SUCCESS Northern Virginia Community College will move into the top tier of community colleges with respect to the college readiness, developmental course completion, retention, graduation, transfer, and career placement of its students.
- II. ACCESS Northern Virginia Community College will increase the number and diversity of students being served to mirror the population growth of the region.
- III. TEACHING AND LEARNING Northern Virginia Community College will focus on student success by creating an environment of world-class teaching and learning.
- IV. EXCELLENCE Northern Virginia Community College will develop ten focal points of excellence in its educational programs and services that will be benchmarked to the best in the nation and strategic to building the College's overall reputation for quality.
- V. LEADERSHIP Northern Virginia Community College will serve as a catalyst and a leader in developing educational and economic opportunities for all Northern Virginians and in maintaining the quality of life and economic competitiveness of the region.
- VI. PARTNERSHIPS Northern Virginia Community College will develop strategic partnerships to create gateways of opportunity and an integrated educational system for Northern Virginians who are pursuing the American Dream.
- VII. RESOURCES Northern Virginia Community College will increase its annual funding by \$100 million and expand its physical facilities by more than one million square feet in new and renovated space. This includes the establishment of two additional campuses at epicenters of the region's population growth, as well as additional education and training facilities in or near established population centers.
- VIII. EMERGENCY PREPAREDNESS AND CONTINUITY OF OPERATIONS Northern Virginia Community College will be recognized as a leader among institutions of higher education in Virginia for its development and testing of emergency response and continuity of operation plans.



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