

NOVA Courses - Dual Enrollment SY2018-19						Course Requirements	
	Subject	Catalog Number	Course Title	Course Description	Credits	Prerequisite	Corequisite
1.	ADJ	105	The Juvenile Justice System	Present the evolution, philosophy, structures, and processes of the American juvenile delinquency system; surveys the right of juveniles, dispositional alternatives, rehabilitation methods, and current trends.	3		
2.	ADJ	110	Introduction to Law Enforcement	Studies the philosophy and history of law enforcement, presenting an overview of the crime problem and policy response issues.	3		
3.	AIR	111	Air Conditioning & Refrigeration Controls I	Presents electron theory, magnetism, Ohm's Law, resistance, current flow, instruments for electrical measurement, A.C. motors, power distribution control, and their application.	3	SDV 100 or SDV 106	SDV 100 or SDV 106
4.	AIR	121	Air Conditioning & Refrigeration I	Studies refrigeration theory, characteristics of refrigerants, temperature and pressure, tools and equipment, soldering, brazing, refrigeration systems, system components, compressors, evaporators, and metering devices. Presents charging and evaluation of systems and leak detection. Explores servicing the basic system. Explains use and care of oils and additives and troubleshooting of small commercial systems.	4	SDV 100 or SDV 106	SDV 100 or SDV 106
5.	ARC	123	Architectural Graphics I	Introduces techniques or architectural communication including orthographic projection and sketching as well as 3d views and modeling.	3		
6.	ARC	124	Architectural Graphics II	Introduces techniques or architectural communication including orthographic projection and sketching as well as 3d views and modeling.	3	ARC 121, ARC123, or DRF 201 & ARC 133	
7.	ASL	261	American Sign Language V-VI	Develops advanced American sign language comprehension and productions skills. Emphasizes advanced linguistic aspects of ASL.	3	ASL 202; ASL 261 is the prerequisite for ASL 262	
8.	AUB	106	Basic Sheet Metal Operations	Teaches the use of metal straightening tools, basic straightening operations, shrinking, filling, and sheet metal damage and repair procedures.	4		

9.	AUB	118	Automotive Paint Preparation	Teaches auto body preparation for painting, using the materials, processes, and equipment required to prepare metal and old finishes.	4		
10.	AUT	100	Introduction to Automotive Shop Practices	Introduces shop practices for automotive laboratory and shop safety, identification and use of hand tools, general power equipment, and maintenance of automotive shop. Prerequisite or corequisite for all automotive courses.	2		
11.	AUT	241	Automotive Electricity I	Introduces electricity and magnetism, symbols, and circuitry as applied to the alternators, regulators, starters, lighting systems, instruments, gauges, and accessories.	4		
12.	AUT	242	Automotive Electricity II	Introduces electricity and magnetism, symbols, and circuitry as applied to the alternators, regulators, starters, lighting systems, instruments, gauges, and accessories.	4	AUT 241	
13.	AUT	265	Automotive Braking Systems	Presents operation, design, construction, repair, and servicing of braking systems, including AntiLock Brake Systems (ABS). Explains uses of tools and test equipment, evaluation of test results, and estimation of repair cost for power, standard, and disc brakes.	4		
14.	AUT	266	Auto Alignment, Suspension, & Steering	Introduces use of alignment equipment in diagnosing, adjusting, and repairing front and rear suspensions. Deals with repair and servicing of power and standard steering systems.	4		
15.	BIO	101	General Biology I	Focuses on foundations in cellular structure, metabolism, and genetics in an evolutionary context. Explores the core concepts of evolution; structure and function; information flow, storage and exchange; pathways and transformations of energy and matter; and systems biology. Emphasizes process of science, interdisciplinary approach, and relevance of biology to society.	4	Placement into ENG 111 & MTE 1-3	
16.	BIO	102	General Biology II	Explores fundamental characteristics of living matter from the molecular level to the ecological community with emphasis on general biological principles. Introduces the diversity of living organisms, their structure, function and evolution.	4	BIO 101	

17.	BIO	141	Human Anatomy & Physiology I	Integrates anatomy and physiology of cells, tissues, organs, and systems of the human body. Integrates concepts of chemistry, physics, and pathology.	4	Placement into ENG 111	
18.	BIO	205	General Microbiology	Examines morphology, genetics, physiology, ecology, and control of microorganisms.	4	CHM 111, CHM 112, and two of the following: BIO 101, BIO 102, BIO 110, BIO 120, BIO 141, BIO 142	
19.	BIO	256	General Genetics	Explores the principles of genetics ranging from classical Mendelian inheritance to the most recent advances in the biochemical nature and function of the gene.	4	Any two of the following: BIO 101, BIO 102, BIO 110, BIO 120, BIO 141, BIO 142	
20.	<u>BUS</u>	116	Entrepreneurship	Presents the various steps considered necessary when going into business. Includes such as product-service analysis, market research evaluation, setting up books, ways to finance startup, operations of the business, development of business plans, buyouts vs. Starting from scratch, and franchising.	3		
21.	BUS	165	Small Business Management	Identifies management concerns unique to small business. Introduces the requirements necessary to initiate a small business, and identifies the elements comprising a business plan.	3		
22.	<u>CAD</u>	140	Technical Drawing	Enhances the principles learned that are related to the field of drafting and design. Gives a more in-depth exposure to detail and working drawings, dimensioning, tolerancing, and conventional drafting practices.	3		
23.	CAD	201	Computer Aided Drafting & Design I	Teaches computer aided drafting concepts and equipment designed to develop a general understanding of components of a typical cad system and its operation.	4		ARC 121, CAD 15, EGR 115 or division approval
24.	CAD	202	Computer Aided Drafting & Design II	Teaches working drawings and advanced operations in computer aided drafting.	4	CAD 201	
25.	<u>CHD</u>	120	Introduction to Early Childhood Education	Introduces early childhood development through activities and experiences in early childhood, prekindergarten, kindergarten, and primary programs.	3		
26.	CHD	145	Teaching Art, Music, & Movement To Children	Focuses on children's exploration, play, and creative expression in the areas of art, music, and movement.	3		

27.	CHD	165	Observation & Participation in Early Childhood/Primary Settings	Focuses on observation as the primary method for gathering information about children in early childhood settings. Emphasizes development of skills in the implementation of a range of observation techniques.	3		
28.	<u>CHI</u>	101*	Beginning Chinese I	Introduces understanding, speaking, reading, and writing skills and emphasizes basic Chinese sentence structure.	5		
29.	CHI	102*	Beginning Chinese II	Introduces understanding, speaking, reading, and writing skills and emphasizes basic Chinese sentence structure.	5	CHI 101	
30.	CHI	201*	Intermediate Chinese I	Offers intensive practice in comprehending and speaking Chinese, with emphasis on developing structure and fluency.	4	CHI 102 or equivalent	
31.	CHI	202*	Intermediate Chinese II	Offers intensive practice in comprehending and speaking Chinese, with emphasis on developing structure and fluency.	4	CHI 201	
32.	<u>CHM</u>	111	General Chemistry I	Explores fundamental laws, theories, and mathematical concepts of chemistry. Requires strong background in mathematics. Designed primarily for science and engineering majors.	4	Placement into ENG 111 & MTH 161	
33.	CHM	112	General Chemistry II	Explores fundamental laws, theories, and mathematical concepts of chemistry. Requires strong background in mathematics. Designed primarily for science and engineering majors.	4	CHM 111	
34.	<u>CSC</u>	200	Introduction to Computer Science	Discusses architecture and function of a computer hardware, including networks and operating systems, data and instruction representation, and data organization.	4	Placement into ENG 111 and MTH 161 OR MTH 167	
35.	CSC	201	Computer Science I	Introduces algorithm and problem-solving methods. Emphasizes structured and object-oriented programming concepts, data types, i/o, control structures, functions, data abstraction, objects, elementary data structures, and the study and use of high level programming language.	4	CSC 200 or CSC 130 or grade of C in MTH 173 or MTH 263	MTH 263 or division approval

36.	CSC	202	Computer Science II	Examines fundamental data structures and analyzes algorithms. Covers abstract data types and essential data structures such as arrays, stacks, queues, linked lists, and trees; introduces searching and sorting algorithms and algorithm analysis.	4	CSC 201 & MTH 263	MTH 264
37.	<u>CST</u>	100	Principles of Public Speaking	Applies theory and principles of public address with emphasis on preparation and delivery.	3		
38.	CST	110	Introduction to Communication	Examines the elements affecting speech communication at the individual, small group, and public communication levels with emphasis on practice of communication at each level.	3		
39.	CST	130	Introduction to Theatre	Surveys the principles of drama, the development of theatre production, and selected plays to acquaint the student with various types of theatrical presentations.	3		
40.	CST	141	Theatre Appreciation I	Aims to increase knowledge and enjoyment of theatre. Considers process, style, organization, written drama, and performed drama.	3		
41.	EDU	200	Introduction to Teaching as a Profession	Provides an orientation to the teaching profession in Virginia, including historical perspectives, current issues, and future trends in education on the national and state levels. Emphasizes information about teacher licensure examinations, steps to certifications, teacher preparation and induction programs, and attention to critical shortage areas in Virginia. Includes supervised field placement (recommended: 40 clock hours) in a K-12 school.	3	Depending upon student program enrollment, student may need to achieve satisfactory score on Praxis CORE and Praxis II	
42.	<u>EGR</u>	115	Engineering Graphics	Applies principles of orthographic projection and multi-view drawings. Teaches descriptive geometry including relationships of points, lines, planes, and solids. Introduces sectioning, dimensioning, and computer graphic techniques. Includes instruction in computer aided drafting.	2		
43.	EGR	120	Introduction to Engineering	Introduces the engineering profession, professional concepts, ethics, and responsibility.	2	MTH 162, MTH 167 or placement into MTH 263	ENG 111
44.	EGR	130	Statics & Strength of Materials for Engineering Technology	Presents principles and application of free-body diagrams of force systems in equilibrium.	5	MTH 161, MTH 162, MTH 167 or equivalent	

45.	EMS	100	CPR For Healthcare Providers	Provides instruction in cardiopulmonary resuscitation that meets current emergency cardiac care (ECC) guidelines for cardiopulmonary resuscitation education for healthcare providers.	1		
46.	EMS	111	Emergency Medical Technician: Basic	Prepares student for certification as a Virginia and national registry EMT. Includes all aspects of prehospital basic life support as defined by the Virginia office of emergency medical services curriculum for emergency medical technician basic.	7	EMS 100 or CPR certification	EMS 120
47.	EMS	120	Emergency Medical Technician: Basic Clinical	Observes in a program-approved clinical/field setting.	1		EMS 111
48.	ENG	111	College Composition I	Introduces students to critical thinking and the fundamentals of academic writing. Through the writing process, students refine topics: develop and support ideas; investigate, evaluate, and incorporate appropriate resources; edit for effective style and usage; and determine appropriate approaches for a variety of contexts, audiences, and purposes. Writing activities will include exposition and argumentation with at least one researched essay.	3	Placement into ENG 111	
49.	ENG	112	College Composition II	Continues to develop college writing with increased emphasis on critical essays, argumentation, and research, developing these competencies through examination of a range of texts about human experience. Requires students to locate, evaluate, integrate, and document sources and effectively edit for style and usage.	3	ENG 111	
50.	ENG	251	Survey of World Literature I	Examines major works of world literature. Involves critical reading and writing.	3	ENG 112 or ENG 125	
51.	ENG	252	Survey of World Literature II	Examines major works of world literature. Involves critical reading and writing.	3	ENG 112 or ENG 125	
52.	FIN	248	International Finance	Exposes the student to the international financial environment. Focuses on the financial management of businesses operating in international markets. Includes topics such as importance of international finance; monetary systems; foreign exchange risk; and short-term and long-term financial markets including how to manage political risk.	3		

53.	GER	101	Beginning German I	Introduces understanding, speaking, reading, and writing skills and emphasizes basic German sentence structures.	4		
54.	GER	102	Beginning German II	Introduces understanding, speaking, reading, and writing skills and emphasizes basic German sentence structures.	4	GER 101	
55.	GER	201	Intermediate German I	Continues to develop understanding, speaking, reading, and writing skills. German is used in the classroom.	3	GER 102 or equivalent	
56.	GER	202	Intermediate German II	Continues to develop understanding, speaking, reading, and writing skills. German is used in the classroom.	3	GER 201	
57.	GOL	111	Oceanography I	Examines the dynamics of the oceans and ocean basins. Applies the principles of physical, chemical, biological, and geological oceanography.	4		
58.	GOL	112*	Oceanography II	Examines the dynamics of the oceans and ocean basins. Applies the principles of physical, chemical, biological, and geological oceanography.	4	Instructor approval	
59.	HIM	111	Medical Terminology I	Introduces the student to the language used in the health record. Includes a system-by-system review of anatomic, disease, and operative terms, abbreviations, radiography procedures, laboratory tests, and pharmacology terms.	3		
60.	HIS	111	History of World Civilization I	Examines the development of western civilization from ancient times to the present. The first semester ends with the 17th century.	3		
61.	HIS	112	History of World Civilization II	Surveys Asian, African, Latin American, and European civilizations from the ancient period to the present.	3		
62.	HIS	121	US History I	Surveys united states history from its beginning to the present.	3		
63.	HIS	122	US History II	Surveys united states history from its beginning to the present.	3		
64.	HIS	203	History of African Civilization I	Examines major social, economic, political and religious developments from earliest times to the present.	3		
65.	HIS	231	History of Latin Civilizations I	Examines Latin American civilizations from pre-Columbian origins to the present.	3		
66.	HIS	232	History of Latin Civilizations II	Examines Latin American civilizations from pre-Columbian origins to the present.	3		

67.	HLT	141	Introduction to Medical Terminology	Focuses on medical terminology for students preparing for careers in the health professions.	1		
68.	HLT	143	Medical Terminology I	Provides an understanding of medical abbreviations and terms. Includes the study of prefixes, suffixes, word stems, and technical terms with emphasis on proper spelling, pronunciation, and usage. Emphasizes more complex skills and techniques in understanding medical terminology.	3		
69.	HRI	106	Principles of Culinary Arts I	Introduces the fundamental principles of food preparation and basic culinary procedures. Stresses the use of proper culinary procedures combined with food science, proper sanitation, standards of quality for food items that are made, and proper use and care of kitchen equipment.	3		
70.	HRI	107	Principles of Culinary Arts II	Introduces the fundamental principles of food preparation and basic culinary procedures. Stresses the use of proper culinary procedures combined with food science, proper sanitation, standards of quality for food items that are made, and proper use and care of kitchen equipment.	3		
71.	HRI	158	Sanitation & Safety	Covers the moral and legal responsibilities of management to insure a sanitary and safe environment in a food service operation. Emphasizes the causes and prevention of food-borne illnesses in the conformity with federal, state, and local guidelines. Focuses on osha standards in assuring safe working conditions.	3		
72.	HRT	100	Introduction to Horticulture	Introduces commercial horticulture industry with emphasis on career opportunities. Examines equipment; facilities; and physical arrangements of production, wholesale, and retail establishments.	3		
73.	HRT	115	Plant Propagation	Teaches principles and practices of plant propagation. Examines commercial and home practices. Provides experience in techniques using seed-spores, cuttings, grafting, budding, layering and division.	3		
74.	HRT	121	Greenhouse Crop Production I	Examines commercial practices related to production of floricultural crops. Consider production requirements, environmental control and management, and cultural techniques affecting production of seasonal crops.	3		

75.	HRT	245	Woody Plants	Studies identification, culture, and uses of woody plants in landscaping. Includes deciduous and evergreen, native and cultivated shrubs, trees, and vines.	3		
76.	ITD	110	Web Page Design I	Stresses a working knowledge of website designs, construction, and management using HTML or XHTML.	3		
77.	ITD	132	Structured Query Language	Incorporates a working introduction to commands, functions, and operators used in SQL for extracting data from standard databases.	3	ITE 115	
78.	ITD	134	PL/SQL Programming	Presents a working introduction to PL/SQL programming within the Oracle RDBMS environment. Includes PL/SQL fundamentals of block program structure; variables; cursors and exceptions; and creation of program units of functions, triggers, procedures, and packages.	3	ITD 132	
79.	ITD	210	Web Page Design II	Incorporates advanced techniques in website planning, design, usability, accessibility, advanced site management, and maintenance utilizing web editor software(s).	3	ITD 110	
80.	ITD	256	Advanced Database Management	Focuses in-depth instruction in the handling of critical tasks of planning and implementing large databases. Includes an introduction to concepts of advanced data warehousing and database configuration.	3	ITE 115	
81.	ITD	260	Data Modeling & Design	Introduces life cycle application development methodologies in a systematic approach to developing relational databases and designing applications. Presents context introducing functional and business process modeling, using modeling information to produce application designs, analyzing data requirements as entities, attributes, and relationships and map an entity relationship diagram to an intimal database design.	3	ITE 115	
82.	ITE	100	Introduction to Information Systems	Covers the fundamentals of computers and computing and topics that include impact of computers on society, ethical issues, and terminology.	3		
83.	ITE	115	Introduction to Computer Applications & Concepts	Covers computer concepts and internet skills and uses a computer software suite that includes word processing, spreadsheet, database, and presentation software to demonstrate skills required for computer literacy.	3	Recommended prerequisite: keyboarding skills	

84.	ITN	100	Introduction to Telecommunications	Surveys data transmission systems, communication lines, data sets, network, interfacing, protocols, and modes of transmission.	3	ITE 115	
85.	ITN	101	Introduction to Network Concepts	Provides instruction in networking media, physical and logical topologies, common networking standards and popular networking protocols. Emphasizes the TCP/IP protocol suite and related IP addressing schemes, including CIDR. Includes selected topics in network implementation, support, and LAN/WAN connectivity.	3	ITE 115	
86.	ITN	106	Microcomputer Operating Systems	Teaches use of operating system utilities and multiple-level directory structures, creation of batch files, and configuration of microcomputer environments.	3		
87.	ITN*	107	Personal Computer Hardware & Troubleshooting	Includes specially designed instruction to give students a basic knowledge of hardware and software configurations. Includes installation of various peripheral devices as well as basic system hardware components.	3		
88.	ITN	154	Networking Fundamentals: Cisco	Provides introduction to networking using the OSI reference model. Includes data encapsulation, TCP/IP suite, routing, IP addressing, and structured cabling design and implementation.	4		
89.	ITN	155	Introductory Routing: Cisco	Features an introduction to basic router configuration using Cisco IOS software. Includes system components, interface configuration, IP network design, troubleshooting techniques, configuration and verification of IP addresses and router protocols.	4	ITN 154	
90.	ITN	156	Basic Switching & Routing: Cisco	Centers instruction in LAN segmentation using bridges, routers, and switches. Includes fast Ethernet, access lists, routing protocols, spanning tree protocol, virtual LANs, and network management.	4	ITN 155	
91.	ITN	157	WAN Technologies: Cisco	Concentrates on an introduction to wide area networking (wans). Includes wan design, LAPB, frame relay, ISDN, HDLC, and PPP.	4	ITN 156	
92.	ITN	170	Linux System Administration	Focuses instruction on the installation, configuration, and administration of the Linux operating system and emphasizes the use of Linux as a network of client and workstation.	3	ITE 115	

93.	ITN	171	Unix I	Provides and introduction to Unix operating systems. Teaches login procedures, file creation, Unix file structure, input/output control, and the Unix shell.	3	ITE 115	
94.	ITN	200	Administration of Network Resources	Focuses on the management of local area network servers. Teaches proper structuring of security systems. Explains print queues, disk management, and other local area network (LAN) issues.	3	ITN 100 or ITN 101	
95.	ITN	260	Network Security Basics	Explores the basics of network security in depth. Includes security objectives, security architecture, security models, and security layers. Discusses risk management, network security policy, and security training.	3	ITN 100 or ITN 101	
96.	<u>ITP</u>	100	Software Design	Introduces principles and practices of software development. Includes instruction in critical thinking, problem solving skills, and essential programming logic in structured and object-oriented design using contemporary tools.	3	Placement into MTH 154 or HIGHER	
97.	<u>LAT</u>	201	Intermediate Latin I	Introduces the reading of classical Latin with a review of Latin grammar, forms, and syntax.	3	2 years of high school Latin or 1 college Latin	
98.	LAT	202	Intermediate Latin II	Introduces the reading of classical Latin with a review of Latin grammar, forms, and syntax.	3	LAT 201	
99.	<u>MKT</u>	201*	Introduction to Marketing	Introduces students to the discipline of marketing and the need to create customer value and customer relationships in the marketplace. Presents an overview of the marketing principles, concepts, management strategies and tactics, along with the analytical tools, used by organizations in the creation of a marketing plan to promote ideas, products, and/or services to selected target groups. Examines entrepreneurial e-marketing practices in today's business environment.	3		
100.	<u>MTH</u>	154	Quantitative Reasoning <i>(Former MTH 157--Elementary Statistics)</i>	Presents topics in proportional reasoning, modeling, financial literacy and validity studies (logic and set theory). Focuses on the process of taking a real-world situation, identifying the mathematical foundation needed to address the problem, solving the problem and applying what is learned to the original situation.	3	MTE 1-5	
101.	MTH	161	Precalculus I <i>(Former MTH 163--Precalculus I)</i>	Presents topics in power, polynomial, rational, exponential, and logarithmic functions, and systems of equations and inequalities.	3	MTE 1-9	

102.	MTH	162	Precalculus II <i>(Former MTH 164--Precalculus II)</i>	Presents trigonometry, trigonometric applications including Law of Sines and Cosines and an introduction to conics.	3	Placement into MTH 162 of completion of MTH 161	
103.	MTH*	245	Statistics I <i>(Former MTH 241—Statistics I)</i>	Presents an overview of statistics, including descriptive statistics, elementary probability, probability distributions, estimation, hypothesis testing, correlation, and linear regression.	3	MTH 154, MTH 161, MTH 165, or MTH 181	
104.	MTH	263	Calculus I <i>(Former MTH 173--Calculus With Analytic Geometry I)</i>	Presents concepts of limits, derivatives, differentiation of various types of functions and use of differentiation rules, application of differentiation, antiderivatives, integrals and applications of integration.	4	MTH 167, MTH 161/162 or equivalent	
105.	MTH	264	Calculus II <i>(Former MTH 174--Calculus With Analytic Geometry II)</i>	Continues the study of calculus of algebraic and transcendental functions including rectangular, polar, and parametric graphing, indefinite and definite integrals, methods of integration, and power series along with applications.	4	MTH 263 or equivalent	
106.	MTH	265	Calculus III <i>(Former MTH 277--Vector Calculus)</i>	Focuses on extending the concepts of function, limit, continuity, derivative, integral and vector from the plane to the three dimensional space. Covers topics including vector functions, multivariate functions, partial derivatives, multiple integrals and an introduction to vector calculus.	4	MTH 264	
107.	MTH	266	Linear Algebra <i>(Former MTH 285--Linear Algebra)</i>	Covers matrices, vector spaces, determinants, solutions of systems of linear equations, basis and dimension, eigenvalues, and eigenvectors. Features instruction for mathematical, physical and engineering science programs.	3	MTH 263 or 264 or equivalents	
108.	MTH	267	Differential Equations <i>(Former MTH 291--Differential Equations)</i>	Introduces ordinary differential equations. Includes first order differential equations, second and higher order ordinary differential equations with applications and numerical methods.	3	MTH 264 or equivalent	
109.	<u>MUS</u>	121*	Music Appreciation I	Increases the variety and depth of the student's interest, knowledge, and involvement in music and related cultural activities. Acquaints the student with traditional and twentieth-century music literature, emphasizing the relationship music has as an art form with man and society. Increases the student's awareness of the composers and performers of all eras through listening and concert experiences.	3		

110.	MUS	122*	Music Appreciation II	Increases the variety and depth of the student's interest, knowledge, and involvement in music and related cultural activities. Acquaints the student with traditional and twentieth-century music literature, emphasizing the relationship music has as an art form with man and society. Increases the student's awareness of the composers and performers of all eras through listening and concert experiences.	3		
111.	MUS	213	Composition I	Requires the writing of short compositions in several styles, ranging from the eighteenth to the twentieth century, for various instrumental or vocal combinations. Individualizes instruction meets the special need of each student.	3	Division approval	
112.	MUS	214	Composition II	Requires the writing of short compositions in several styles, ranging from the eighteenth to the twentieth century, for various instrumental or vocal combinations. Individualizes instruction meets the special need of each student.	3	Division approval	
113.	<u>PHT</u>*	101	Photography I	Teaches principles of photography and fundamental camera techniques. Requires outside shooting and lab work.	3		
114.	PHT	130	Video I	Introduces the basics of recording and editing video and sound for a variety of intents. Explores time-based media as an art form and means of communication.	3		
115.	PHT	131	Video II	Introduces the basics of recording and editing video and sound for a variety of intents. Explores time-based media as an art form and means of communication.	3	PHT 130 or instructor approval	
116.	PHT	274	Digital Film Editing & Post Production	Introduces students to techniques and procedures involved in digital film editing and post production. Covers aspects of editing to include industry standard software packages. Emphasizes the mechanics and obstacles of working with the moving image in the twenty-first century including available tools and methods, importance of file types, and how to keep things organized.	3		
117.	<u>PHY</u>	101	Introduction to Physics I	Surveys general principles of physics. Includes topics such as force and motion, energy, heat, sound (PHY 101), light, electricity and magnetism, and modern physics (PHY 102). Involves using arithmetic and some simple algebra, mostly in laboratory.	4	Placement into ENG 111	

118.	PHY	102	Introduction to Physics II	Surveys general principles of physics. Includes topics such as force and motion, energy, heat, sound (PHY 101), light, electricity and magnetism, and modern physics (PHY 102). Involves using arithmetic and some simple algebra, mostly in laboratory.	4	PHY 101	
119.	PHY	201	General College Physics I	Teaches fundamental principles of physics. Covers mechanics, thermodynamics, wave phenomena, electricity, optics, magnetism, and selected topics in modern physics.	4	MTH 163 & placement into ENG 111	
120.	PHY	202	General College Physics II	Teaches fundamental principles of physics. Covers mechanics, thermodynamics, wave phenomena, electricity, optics, magnetism, and selected topics in modern physics.	4	PHY 201 & placement into ENG 111	
121.	<u>PLS</u>	211	US Government I	Teaches structure, operation, and process of national, state, and local governments. Includes in-depth study of the three branches of the government and of public policy.	3		
122.	PLS	212	US Government II	Teaches structure, operation, and process of national, state, and local governments. Includes in-depth study of the three branches of the government and of public policy.	3		
123.	PLS	241*	International Relations I	Teaches geographic, demographic, economic, ideological, and other factors conditioning the policies of countries, and discusses conflicts and their adjustment.	3		
124.	PLS	242*	International Relations II	Teaches foreign policies of the major powers in the world community with an emphasis on the role of the United States in international politics.	3		
125.	<u>PSY</u>	200	Principles of Psychology	Surveys the basic concepts of psychology. Covers the scientific study of behavior, behavioral research methods and analysis, and theoretical interpretations. Includes topics that cover physiological mechanisms, sensation/perception, motivation, learning, personality, psychopathology, therapy, and social psychology.	3		
126.	<u>REL</u>	100*	Introduction to the Study of Religion	Explores various religious perspectives and ways of thinking about religious themes and religious experience.	3		
127.	REL	231*	Religions of the World I	Studies religions of the world with attention to origin, history, and doctrine. Part I of II.	3		

128.	REL	232*	Religions of the World II	Studies religions of the world with attention to origin, history, and doctrine. Part II of II.	3		
129.	REL	246	Christianity	Examines the origins and historical development of Christianity, its basic metaphysical and theological assumptions and essential doctrines; also examines the present state of the church in the modern world.	3		
130.	<u>SPA</u>	201	Intermediate Spanish I	Continues to develop understanding, speaking, reading, and writing skills. Spanish is used in the classroom.	3	SPA 102 or equivalent	
131.	SPA	202	Intermediate Spanish II	Continues to develop understanding, speaking, reading, and writing skills. Spanish is used in the classroom.	3	SPA 201	
132.	<u>WEL</u>	120	Introduction to Welding	Introduces history of welding processes. Covers types of equipment, and assembly of units. Stresses welding procedures such as fusion, non-fusion, and cutting oxyacetylene. Introduces arc welding. Emphasizes procedures in the use of tools and equipment.	2		
133.	WEL	121	Arc Welding	Studies the operation of ac and fc power sources, weld heat, polarities, and electrodes for use in joining various alloys by the same process. Covers welds in different types of joints and different welding positions.	2		
134.	WEL	122	Welding II: Electric Arc	Teaches electric arc welding, including types of equipment, selection of electrodes, safety equipment and procedures, and principles and practices of welding.	3	WEL 121 or instructor approval	
135.	WEL	130	Inert Gas Welding	Introduces practical operations in the uses of inert gas-shield arc welding. Discusses equipment, safety operations, welding practices in the various positions; shielded gases, filler rods, process variations, and applications; and manual and semi-automatic welding.	3		
136.	WEL	150	Welding Drawing & Interpretation	Teaches fundamentals required for successful drafting as applied to the welding industry, including blueprint reading, geometric principles of drafting and freehand sketching, basic principles of orthographic projection, preparation of drawings, and interpretation of symbols.	2		
137.	WEL	160	Semi-Automatic Welding Processes	Introduces semi-automatic welding processes with emphasis on practical application. Includes the study of filler wires, fluxes, and gases.	3		

***New Courses for SY2018-19**

NOVA CATALOG SOURCE: 2018-2019

<https://www.nvcc.edu/catalog/cat2018/catalog2018.pdf>

NOVA COURSE CONTENT SUMMARIES:

<https://www.nvcc.edu/courses/>

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