

## Contract Dual Enrollment Course Offerings 2022-2023

### Pre-Reqs/Co-Reqs

NOVA DE Course	Course Full Name	Course Description	Credits	Eligibility Criteria	Additional Requirements	Prerequisite Courses	Co-Requisite Courses
ADJ 100	Survey of Criminal Justice	Presents an overview of the United States criminal justice system; introduces the major system components: law enforcement, judiciary, and corrections.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	n/a	n/a	n/a
ART 100	Art Appreciation	Introduces art from prehistoric times to the present day. Describes architectural styles, sculpture, photography, printmaking, and painting techniques. Highlights major artists and key contributions from global and Western culture. Covers content chronologically and/or thematically.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	n/a	n/a	n/a
ASL 101	Beginning American Sign Language I	Introduces cultural awareness, comprehension and production skills, and emphasizes basic sentence structure in American Sign Language with a focus on interactive communicative competence. Part I of II.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	n/a	n/a	n/a
ASL 102	Beginning American Sign Language II	Introduces cultural awareness, comprehension and production skills, and emphasizes basic sentence structure in American Sign Language with a focus on interactive communicative competence. Part II of II.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	Successful completion of ASL 101	ASL 101	n/a
BUS 100	Introduction to Business	Presents a broad introduction to the functioning of business enterprise within the U.S. economic framework. Introduces economic systems, essential elements of business organization, production, human resource management, marketing, finance, and risk management. Develops business vocabulary.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	n/a	n/a	n/a
CSC 208	Introduction to Discrete Structures	Introduces discrete mathematics concepts in relation to computer science. Applies the use of Boolean algebra, analysis of algorithms such as logic, sets and functions, recursive algorithms, and recurrence relations, combinatorics, graphs, and trees. Assignments in this course require a basic understanding of programming concepts, problem solving, basic college algebra and trigonometry skills.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	n/a	n/a	n/a
CSC 221	Introduction to Problem Solving and Programming	Introduces problem solving and implementation of solutions using a high level programming language in a structured programming environment. Includes concepts and practice of structured programming, problem-solving, top-down design of algorithms, a high level programming language syntax, control structures, arrays, and an introduction into object oriented programming. First course in a three course sequence. (CSC 221-222-223) The assignments in this course require mathematical problem solving skills, algebraic modeling and functions, and use of variables.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	n/a	n/a	n/a
CSC 222	Object-Oriented Programming	Introduces the concepts and techniques of object-oriented programming to students with a background in procedural programming and problem solving. Uses a high-level computer language to illustrate and implement the topics. Second course in a three course sequence. (CSC 221-222-223)		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	Successful completion of CSC 221 or AP Computer Science A exam score of 3+	CSC 221	n/a
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.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	n/a	n/a	n/a
ECO 201	Principles of Macroeconomics	Presents the fundamental macroeconomic concepts, theories, and issues including the study of scarcity and opportunity cost, supply and demand, national economic growth, inflation, recession, unemployment, fiscal and monetary policies, and international trade. Develops an appreciation of how these economic concepts apply to consumer, business, and government decisions, and their effect on the overall economy.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	n/a	n/a	n/a
ECO 202	Principles of Microeconomics	Presents the fundamental microeconomic concepts, theories, and issues including the study of scarcity and opportunity cost, supply and demand, elasticities, marginal revenues and costs, profits, production and distribution. Develops an appreciation of how these economic concepts apply to consumer and business decisions, and their effect on the individual.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	n/a	n/a	n/a
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.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	n/a	n/a	n/a
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.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	Successful completion of ENG 111	ENG 111	n/a
HIS 101	History of Western Civilization I	Examines the development of western civilization from ancient times to the present. The first semester ends with the 17th century; the second semester continues through modern times.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	n/a	n/a	n/a
HIS 102	History of Western Civilization II	Examines the development of western civilization from ancient times to the present. The first semester ends with the 17th century; the second semester continues through modern times.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	n/a	n/a	n/a
HIS 111	History of World Civilization I	Surveys Asian, African, Latin American, and European civilizations from the ancient period to the present.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	n/a	n/a	n/a
HIS 112	History of World Civilization II	Surveys Asian, African, Latin American, and European civilizations from the ancient period to the present.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	n/a	n/a	n/a
HIS 121	US History I	Surveys United States history from its beginning to the present.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	n/a	n/a	n/a
HIS 122	US History II	Surveys United States history from its beginning to the present.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	n/a	n/a	n/a
ITE 152	Introduction to Digital Literacy and Computer Applications	Develops understanding of digital literacy. Introduces basic computer concepts in hardware, software, cyber, cloud, database, and operating systems. Includes hands-on experience developing word processing, spreadsheet and presentation documents. Evaluates the reliability of sources. Covers creating a simple web page. Examines topics such as social, legal, and ethical issues.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	n/a	n/a	n/a
MTH 154	Quantitative Reasoning	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.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	High School Math course grade of 2.0 (C) or higher; PSAT Math 500 or higher; SAT Math 530 or higher; ACT 22 or higher on Math subject area test; or VPT placement in MTH 154 or higher	n/a	n/a
MTH 161	Precalculus I	Presents topics in power, polynomial, rational, exponential, and logarithmic functions, and systems of equations and inequalities.		Overall GPA 3.0 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	Algebra 2 or higher course grade of 2.0 (C) or higher; SAT Math 530 or higher; ACT 22 or higher on Math subject area test; or VPT placement in MTH 161 or higher	n/a	n/a
MTH 162	Precalculus II	Presents trigonometry, trigonometric applications including Law of Sines and Cosines and an introduction to cones.		Overall GPA 3.0 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	Note pre-req	MTH 161 with a C or better	n/a
MTH 245	Statistics I	Presents an overview of statistics, including descriptive statistics, elementary probability, probability distributions, estimation, hypothesis testing, correlation, and linear regression.		Overall GPA 3.0 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	Note pre-reqs	MTH 154 or MTH 161 with a C or better	n/a
MTH 263	Calculus 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.		Overall GPA 3.0 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	Note pre-reqs	MTH 161/162 or MTH 167 with a C or better; NOVA's placement test	n/a
MTH 264	Calculus II	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. Features instruction for mathematical, physical and engineering science programs.		Overall GPA 3.0 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	Note pre-reqs	MTH 263 with a C or better; AP Calculus AB 4+	n/a
MTH 265	Calculus III	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. Features instruction for mathematical, physical and engineering science programs.		Overall GPA 3.0 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	Note pre-reqs	MTH 264 with a C or better; AP Calculus BC 4+	n/a
MTH 266	Linear Algebra	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.		Overall GPA 3.0 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	Note pre-reqs	MTH 263 with a B or better; or MTH 264 with a C or better; AP Calculus BC 4+	n/a
MTH 267	Differential Equations	Introduces ordinary differential equations. Includes first order differential equations, second and higher order ordinary differential equations with applications and numerical methods.		Overall GPA 3.0 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	Note pre-reqs	MTH 264 with a C or better; AP Calculus BC 4+	n/a
MUS 121	Music in Society	Explores the language of music through an introduction to basic elements, forms and styles across time. Acquaints students with composers' lives and influential creative individualities, discovering representative works and milestones in western society. Develops techniques for listening analytically and critically. Reviews historical development and significance of art music within the context of evolving societal structures.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	n/a	n/a	n/a

	PLS 135	US Government and Politics	Teaches the political structure, processes, institutions, and policymaking of the US national government. Focuses on the three branches of government, their interrelationships, and how they shape policy. Addresses Federalism; civil liberties and civil rights; political socialization and participation; public opinion; the media; interest groups; political parties; elections; and policymaking. The assignments in the course require college-level reading fluency and coherent communication through written reports.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	n/a	n/a	n/a
	PSY 200	Principles of Psychology	Surveys the basic concepts of psychology. Covers the scientific study of behavior and mental processes, research methods and measurement, theoretical perspectives, and application. Includes biological bases of behavior, learning, social interactions, memory, and personality; and other topics such as sensation, perception, consciousness, thinking, intelligence, language, motivation, emotion, health, development, psychological disorders, and therapy.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	n/a	n/a	n/a
	SDV 100	College Success Skills	Assists students to make a successful transition to college. Provides students with the academic tools for success and teaches the skills of self-management and self-responsibility that relate to being a successful student. Helps students learn how to make responsible choices about their academic, personal, and career goals. Provides information about the College and community resources, the College's policies and procedures, and the processes of moving effectively through the educational system. Strongly recommended for beginning students; first-time College students are required to take SDV 100 or another SDV course before enrolling for their 16th semester hour at the College.		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	n/a	n/a	n/a
	World Languages 101	NOVA offers a variety of world languages at the 101 level. Students may start a language at 101 or work with the dual enrollment office to take NOVA's placement test to test into a higher level.	See description on website		Overall GPA 3.0 or higher; PSAT ERW 390 or higher; SAT ERW 480 or higher; ACT 18 or higher on both English and Writing subject area tests; or VPT placement into ENG 111	n/a	n/a	n/a

NOVA CATALOG SOURCE:  
<https://www.nvcc.edu/catalog/>

NOVA COURSE CONTENT SUMMARIES:  
<https://www.nvcc.edu/courses/>

CREDIT FOR AP, IB, AND OTHER PRIOR LEARNING  
<https://www.nvcc.edu/prior-learning/>

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