



TRENTON HIGH SCHOOL COURSE GUIDE

Introduction: This course guide includes course descriptions of all courses available to students here at Trenton High School that will be taught by our teachers. In addition to these courses, students can explore additional elective options through the North Dakota Center for Distance Education, The Great Northwest Area Career and Technical Center, certain courses offered through our “in-house” online curriculum courseware “Edmentum,” or dual credit options through participating colleges (most commonly through Williston State College). Students interested in options beyond classes offered here at school must visit with the counselor or high school principal to determine readiness and availability.

Graduation Requirements:

English/Language Arts.....	4 credits
Mathematics	3 credits
Health	0.5 credit
Physical Education.....	0.5 credit
Science (Physical Science, Biology, and one science elective).....	3 credits
Social Studies (US History, Problems of Democracy, and one social studies elective)	3 credits
Choice from Foreign/Native Language, Fine Arts, or Career and Technical Education	3 credits
Any additional.....	5 credits
Total credits required for graduation	22 CREDITS

ENGLISH/LANGUAGE ARTS

Course Name	Grade	Course Description	Credits
English 9 Length: 1 year Prerequisite: None	9	English 9 builds upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and usually include the four aspects of language use: reading, writing, speaking, and listening. Typically, this course introduces and defines various genres of literature, with writing exercises often linked to reading selections.	1 credit (½ per semester)
English 10 Length: 1 year Prerequisite: English 9	10	English 10 offers a balanced focus on composition and literature. Students will learn about the alternate aims and audiences of written compositions by writing persuasive, critical, and creative multi-paragraph essays and compositions. Through the study of various genres of literature, students can improve their reading rate and comprehension and develop the skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message.	1 credit (½ per semester)
English 11 Length: 1 year Prerequisite: English 10	11	English 11 continues to develop students' writing skills, emphasizing clear, logical writing patterns, word choice, and usage, as students write essays and begin to learn the techniques of writing research papers. Students will read works of literature which form the backbone of the writing assignments.	1 credit (½ per semester)
English 12 Length: 1 year Prerequisite: English 11	12	English 12 blends composition and literature into a cohesive whole as students write critical and comparative analyses of selected literature, continuing to develop their language arts skills. Typically, students primarily write multi-paragraph essays, but they may also write one or more major research papers.	1 credit (½ per semester)
Humanities (Literature) Length: 1 year Prerequisite: None	10-12	Humanities provides an overview of major expressions of the cultural heritage of selected western and eastern civilizations. Content includes (but is not limited to) the examination of selected examples of art, music, literature, architecture, technology, philosophy, and religion of the cultures studied. This course may also cover the languages and political institutions of these cultures.	1 credit (½ per semester)
Modern Literature Length: 1 year Prerequisite: None	10-12	This one-year course is designed to survey modern literature through the 21st century. Emphasis is placed on the development of critical reading and writing skills. Instructional practices incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to society. The appropriate use of technology and oral discussion are an integral part of this course, and written compositions are often required.	1 credit (½ per semester)
Mass Media/Journalism Length: 1 year Prerequisite: None	10-12	Mass Media/Journalism develops an awareness of the cultural and social impact of mass media and artistic features unique to each medium. It addresses mass media's influence on the communication process; electronic media (radio and television), printed media (newspapers and magazines), and the film as forms of entertainment and education.	1 credit (½ per semester)

MATHEMATICS

Course Name	Grade	Course Description	Credits
Pre-Algebra Length: 1 year Prerequisite: None	9	Prealgebra increases students' foundational math skills and prepare them for Algebra I by covering a variety of topics, such as properties of rational numbers (i.e., number theory), ratio, proportion, estimation, exponents and radicals, the rectangular coordinate system, sets and logic, formulas, and solving first-degree equations and inequalities.	1 credit (½ per semester)
Algebra I Length: 1 year Prerequisite: Pre-Algebra or equivalent	9-10	Algebra I is a basic requirement for higher mathematics courses. The language of algebra is introduced and used to solve problems involving variables. The basic properties and operations involving the real number system, the solution of open sentences by solving or graphing, and the solution to a system of equations, polynomials and solution of quadratics will be covered.	1 credit (½ per semester)
Geometry Length: 1 year Prerequisite: Algebra I	10-12	Geometry offers a study of points, lines and planes, as well as their properties and relationships. Non-Euclidean and space geometry are discussed briefly. The use of deductive and inductive reasoning along with formal proof structures will be developed. Triangle trigonometry will be introduced.	1 credit (½ per semester)
Algebra II Length: 1 year Prerequisite: Algebra I and/or Geometry	10-12	Algebra II is designed to broaden algebraic skills and concepts learned in Algebra I. The course will include functions and functional notation, the use of graphing and other methods of solving open sentences, conic sections, logarithms, exponential functions, and other advanced algebraic concepts. Probability and Statistics and matrices complete the semester.	1 credit (½ per semester)
Finite Math Length: 1 year Prerequisite: Algebra I and/or Geometry	11-12	Finite Mathematics is an umbrella of mathematical topics. It is a course designed for students who will undertake higher-level mathematics in college that may not include calculus. Finite Math is made up of five strands: Sets, Matrices, Networks, Optimization, and Probability.	1 credit (½ per semester)
Applied Math Length: 1 year Prerequisite: Algebra I and/or Geometry	11-12	Applied Mathematics is designed to help students develop and refine job related math skills. Units focus on arithmetic operations, problem solving techniques, estimation of answers, measurement skills, algebra, geometry, data handling, statistics, and computers. Emphasis is on the ability to apply functional mathematics to solve problems in the world of work.	1 credit (½ per semester)
Math Foundations Length: 1 year Prerequisite: None	9-12	This course examines foundational topics in Math, such as arithmetic or basic conceptual skills, rather than provide a general overview.	1 credit (½ per semester)

SCIENCE

Course Name	Grade	Course Description	Credits
Physical Science Length: 1 year Prerequisite: None	9	Physical Science involves the study of the structures and states of matter. Typically (but not always) offered as introductory survey courses, they may include such topics as forms of energy, wave phenomenon, electromagnetism, and physical and chemical interactions.	1 credit (½ per semester)
Biology Length: 1 year Prerequisite: Physical Science	10	Biology is designed to provide information regarding the fundamental concepts of life and life processes. This course includes (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy.	1 credit (½ per semester)
Chemistry Length: 1 year Prerequisite: Physical Science	11-12	Chemistry involves studying the composition, properties, and reactions of substances. This course typically explores such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied.	1 credit (½ per semester)
Advanced Biology Length: 1 year Prerequisite: Biology	11-12	Usually taken after a comprehensive initial study of biology, Advanced Biology covers biological systems in more detail. Topics that may be explored include cell organization, function, and reproduction; energy transformation; human anatomy and physiology; and the evolution and adaptation of organisms.	1 credit (½ per semester)
Physics Length: 1 year Prerequisite: Physical Science	11-12	Physics involves the study of the forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics includes examination of sound, light, and magnetic and electric phenomena.	1 credit (½ per semester)
Ecology Length: 1 year Prerequisite: None	11-12	Ecology provides students with a basic understanding of living things. Topics covered may include ecology and environmental problems such as overpopulation and pollution as well as cells, types of organisms, evolutionary behavior, and inheritance.	1 credit (½ per semester)
Anatomy and Physiology Length: 1 year Prerequisite: Biology	9-12	Human Anatomy presents an in-depth study of the human body and biological system. Students study such topics as anatomical terminology, cells, and tissues and typically explore functional systems, such as skeletal, muscular, circulatory, respiratory, digestive, reproductive, and nervous systems. Physiology examines all major systems, tissues, and muscle groups in the human body to help students understand how these systems interact and their role in maintaining homeostasis. This course may also cover such topics as cell structure and function, metabolism, and the human life cycle.	1 credit (½ per semester)

SOCIAL STUDIES

Course Name	Grade	Course Description	Credits
Geography Length: 1 year Prerequisite: None	9-12	Geography provides students with an overview of world geography, but may vary widely in the topics they cover. Topics typically include the physical environment; the political landscape; the relationship between people and the land; economic production and development; and the movement of people, goods, and ideas.	1 credit (½ per semester)
Consumer Studies Length: 1 semester Prerequisite: None	10	Choosing careers, choice of school versus careers, budgeting, background on taxes, insurance, credit buying, installment loans, and personal expenditure.	½ credit
Early US History Length: 1 semester Prerequisite: None	10	Early US History prepares students for the full US History course. This course will include a history of the North American peoples before European settlement and the rise of the American nation.	½ credit
US History Length: 1 year Prerequisite: Early US History	11-12	U.S. History provides students with an overview of the history of the United States, examining time periods from discovery or colonialism through World War II or after. This course typically includes a historical overview of political, military, scientific, and social developments.	1 credit (½ per semester)
Principles of Democracy Length: 1 year Prerequisite: None	11-12	Principles of Democracy combine a study of the structure of national, state, and local U.S. government with an overview of the principles of market economics. Course content may include contemporary U.S. issues. The purpose of this course is to prepare students to perform effectively as informed citizens. Students must read the Declaration of Independence, the United States Constitution, and the Bill of Rights. If the state mandated Personal Finance concepts are not offered to all students in another course, then these concepts must be included in the Problems of Democracy curriculum.	1 credit (½ per semester)
North Dakota Studies (NDCDE) Length: 1 semester Prerequisite: None	9-12	North Dakota Studies courses examine the history, politics, economics, society, and/or cultures of the state in the United States. This course may focus primarily on the history of this state or may take an interdisciplinary approach to the contemporary issues affecting it.	1 credit (½ per semester)
World History Length: 1 year Prerequisite: None	9-12	World History provides students with an overview of the history of human society from early civilization to the contemporary period, examining political, economic, social, religious, military, scientific, and cultural developments. World History may include geographical studies, but often these components are not as explicitly taught as geography.	1 credit (½ per semester)

BUSINESS EDUCATION

Course Name	Grade	Course Description	Credits
Accounting I Length: 1 year Prerequisite: None	10-12	This course introduces the fundamental accounting principles and concepts for a proprietorship and corporations. The student will prepare basic financial statements that are used to operate a business. The concepts of payroll records and payroll taxes are covered this semester. Business ethics is woven throughout the lessons.	1 credit (½ per semester)
Business Communications Length: 1 semester Prerequisite: None	10-12	Students in Business Communications will learn to integrate oral and written communication in a clear, courteous, concise, complete and correct manner on both personal and professional levels. Listening skills, learning styles, and teamwork will be incorporated to provide students with opportunities to communicate effectively.	½ credit
Business Technology and Procedures Length: 1 semester Prerequisite: None	10-12	Students in Business Technology and Procedures will analyze productivity throughout the workforce, which imposes on all workers the need for effective and efficient information management, problem solving, and communication tasking. This class provides practical office simulations including information processing systems, job search skills, preparation of business presentations, and other technology procedures.	½ credit
Financial Literacy: Be Smart About Your Money! Length: 1 year Prerequisite: None	9-12	Students in Financial Literacy will study the impact of financial choices on personal and occupational goals and future earnings potential. Real world topics include checking accounts, budgeting, saving for large purchases, using credit cards, figuring interest and fees, being a responsible consumer, earning power, learning about taxes and paycheck withholding, college costs, mortgages, retirement savings, and investments. This course will provide a foundational understanding for making informed personal financial decisions; in other words, BEING SMART ABOUT YOUR MONEY!	1 credit (½ per semester)
Business Fundamentals Length: 1 semester Prerequisite: None	9-12	Students in Business Fundamentals will be introduced to the world of business and prepare for the economic roles of consumer, worker, and citizen. The content may include a study of the business environment and strategies for creating, financing, marketing, and managing a business. This course will also serve as a background for other business courses you may take in high school and college.	½ credit
Cooperative Work Experience Length: 1 year Prerequisite: None	11-12	Provide students with a regularly scheduled, supervised employment opportunity related to Business Education occupations to develop and improve work skills. The employment must be preceded by, or concurrent with, classroom instruction related to the work experience, consistent with the student's occupational goals, and related to the Business program area. Visit with the counselor for more information. Must be 16 years old.	1 credit (½ per semester)

FINE AND PERFORMING ARTS

Course Name	Grade	Course Description	Credits
Fundamentals of Art Length: 1 year Prerequisite: None	9-12	Fundamentals of Art provides students with the knowledge and opportunity to explore an art form and to create individual works of art. This course also provides a discussion and exploration of career opportunities in the art world. Although this course focuses on creation, it may also include the study of major artists, art movements, and styles.	1 credit (½ per semester)
Crafts Length: 1 semester Prerequisite: Fundamentals of Art	10-12	This course will survey a wide range of crafts may focus on only one type of craft; possibilities include calligraphy, quilting, silk-screening, cake-decorating, tole-painting, mask-making, knitting, crocheting, paper-making, and so on.	½ credit
Ceramics Length: 1 semester Prerequisite: Fundamentals of Art	10-12	This class will utilize the knowledge and skills learned in Fundamentals of Art and incorporate introductory pottery skills. The student will also explore the unique pottery forms of different cultures as well as the role that pottery has played in the history of mankind.	½ credit
HS Choir Length: 1 year Prerequisite: None	9-12	Vocal Music (chorus) provides the opportunity to sing a variety of choral literature styles for men's and/or women's voices and are designed to develop vocal techniques and the ability to sing parts.	1 credit (½ per semester)
HS Band Length: 1 year Prerequisite: None	9-12	Instrumental Music (Band) develops students' technique for playing brass, woodwind, and percussion instruments and cover a variety of nonspecified band literature styles (concert, marching, orchestral, and modern styles).	1 credit (½ per semester)

PHYSICAL EDUCATION & HEALTH

Course Name	Grade	Course Description	Credits
Health Length: 1 semester Prerequisite: None	9	Topics covered within Health Education courses may vary widely, but typically include personal health (nutrition, mental health and stress management, drug/alcohol abuse prevention, disease prevention, and first aid) and consumer health issues. The course may also include brief studies of environmental health, personal development, and/or community resources.	½ credit
Physical Education Length: 1 semester Prerequisite: None	9	Physical Education provides students with knowledge, experience, and an opportunity to develop skills in more than one of the following sports or activities: team sports, individual/dual sports, recreational sports, and fitness/conditioning activities.	½ credit
Weight Training Length: 1 year Prerequisite: Physical Education	10-12	Weight Training helps students develop knowledge and skills with free weights and universal stations while emphasizing safety and proper body positioning; they may include other components such as anatomy and conditioning.	1 credit (½ per semester)
Seasonal Sports Length: 1 year Prerequisite: Physical Education	10-12	Seasonal Sports provides students with the knowledge, experience, and opportunity to develop skills in indoor and outdoor activities that align with the changing seasons of North Dakota. Activities could include both team sports and individual sports.	1 credit (½ per semester)

TECHNOLOGY & ENGINEERING

Course Name	Grade	Course Description	Credits
Foundations of Technology: Wood & Metal 1 Length: 1 semester Prerequisite: None	9-12	Wood and Metal 1 increases student's capability by using their unique skills to innovate, improvise, and invent using wood and metal. Students develop an understanding of engineering design: transforming ideas into products or systems. Students gain experience with an array of tools and equipment. With a focus on manufacturing, students also observe how product development effect, and hopefully improve, the quality of life around us. Partnered with Youth Entrepreneurs, students can obtain real-world business experience while developing skills that connect hand-eye coordination and the innovative mind.	½ credit
Foundations of Technology: Wood & Metal 2 Length: 1 semester Prerequisite: Wood & Metal 1	9-12	Wood and Metal 2 helps students further develop skills to innovate, improvise, and invent using wood and metal. Students develop an understanding of engineering design, transforming ideas into products or systems. Students further develop experience with an array of tools and equipment. With a focus on manufacturing, students also observe how product development effect, and hopefully improve, the quality of life around us. Partnered with Youth Entrepreneurs, students can obtain real-world business by participating in Market Day; where students sell products and services of their own development and make real cash.	½ credit
Construction Length: 1 year Prerequisite: Any shop class	10-12	This course focuses on the study the technology involved in the construction of residential and industrial structures. Study will include designing, planning, and constructing structures using various materials and methods.	1 credit (½ per semester)
Technological Design 1 & 2: Exploring Computer-Controlled Machines Length: 1 year Prerequisite: Any shop class	10-12	In Technological Design, engineering scope, content, and professional practices are presented through practical applications. Students in engineering teams apply technology, science, and mathematics concepts and skills to solve engineering design problems and innovate designs. Students research, develop, test, and analyze engineering designs using criteria such as design effectiveness, public safety, human factors, and ethics. This course is an essential experience for students who are interested in technology, innovation, design, and engineering. A state recommended course guide is available.	1 credit (½ per semester)
Cooperative Work Experience Length: 1 year Prerequisite: None	11-12	Provide students with a regularly scheduled, supervised employment opportunity related to Technology and Engineering Education occupations to develop and improve work skills. The employment must be preceded by, or concurrent with, classroom instruction related to the work experience, consistent with the student's occupational goals, and related to the Technology and Engineering program area. Visit with the counselor for more information. Must be 16 years old.	1 credit (½ per semester)

North Dakota Center for Distance Education (NDCDE) Course Options

- **High School Elective Courses**... NDCDE offers high school courses in the following content areas:
 - Aerospace
 - Agriculture
 - Art
 - Business and Marketing
 - Computer Education
 - English
 - Family and Consumer Science
 - General Education
 - Health Careers
 - Mathematics
 - Music
 - Physical Education & Health
 - Science
 - Social Studies
 - Technical Education
 - World Languages

To see a complete list of all NDCDE High School courses and course descriptions, click on this link:

[NDCDE High School Course Options](#)

- **Dual Credit Courses**... NDCDE partners with Mayville State University to provide students with the possibility to earn high school and college credit in the same course. All NDCDE dual credit courses will officially appear on a Mayville State University transcript. Click the link below to check out Dual Credit options through NDCDE:

[NDCDE Dual Credit Online Options](#)

- **NDCDE Advanced Placement (AP) Online courses**... NDCDE offers AP courses that allow a student to earn high school credit and college credit, depending on a students' performance on AP exams. The following courses are available to all Trenton School students if approved by the high school principal:
 - AP Computer Science
 - AP English Language & Composition
 - AP Environmental Science
 - AP Human Geography
 - AP Psychology
 - AP US Government and Politics
 - AP US History

Students choosing to enroll in any NDCDE course understand that, although the school district will pay all course registration costs, if the students withdraws from a course or fails a course, they will be required to reimburse the school district any and all fees charged to the school by the NDCDE. Students who elect to take these courses understand that there will be limited assistance available to them through Trenton School and will be expected to work with the NDCDE instructors teaching the course(s).

Dual Credit Course Options

A “dual credit” course is a one-semester college course taken through a two- or four-year institution of higher education for which the student earns ½ unit of high school credit.

North Dakota’s dual credit program allows students in grades 10 through 12 to take college courses and receive college credit, which also may be used to meet high school graduation requirements. Trenton School will pay tuition and fees for dual credit courses, but books and other costs are the student’s responsibility.

Classes are taught by approved instructors, either face-to-face in the classroom, online or through an Interactive Video Network.

Once you’ve taken college courses from a University System campus, it’s simple to enroll as a full-time student because you already have paid your admission fee and have been accepted by that college or university. If you decide to attend a different University System campus, most general education college courses are transferable.

To enroll as a dual-credit student, you need permission from the high school principal and, in most cases, a minimum GPA of 3.0.

Please review the following page from the North Dakota Department of Public Instruction for more information regarding dual credit course options:

[NDDPI Dual Credit FAQ](#)

Typical courses available to Trenton High School students include: College Algebra, Fundamentals of Public Speaking, College Writing, or other advanced courses, especially in mathematics. Please see the high school principal if you are interested in exploring dual credit course options.

Western Dakota and Great Northwest Area Career and Technology Center (GNWACTC) Course Options

Trenton High School students may also enroll in courses through the Western Dakota network of educational cooperatives, including our GNWACTC. Like NDCDE courses, GNWACTC courses are paid for by the school district, but students who withdraw from or fail courses will be required to reimburse the school district for all costs incurred. Courses are available are:

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| • Medical Related Careers | • Welding Technology | • Introduction to Information Technology |
| • Prevention/Care of Athletic Injuries | • Aviation Technology | • Programming Essentials |
| • Medical Terminology | • Introduction to Agriculture | • Cybersecurity |
| • Health Careers | • Agriculture Processing | • Operating Engineers (Heavy Equipment Operations) |
| • Nurse Assistant | | |

Students interested in exploring courses through the GNWACTC must visit with the high school principal for enrollment information.

For more information about GNWACTC courses, visit the following website: [GNWACTC Program Information](#)