



Wyndmere Public  
School  
Course Descriptions

# 2014-2015

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## **English Courses**

**COURSE TITLE: ENGLISH 9**

1 cr.: 36 wks.

**COURSE DESCRIPTION:** Required for all graduating students at Wyndmere High, this class will offer more exposure to literature. Students will continue reading, grammar, vocabulary and writing during this year.



**COURSE TITLE: ENGLISH 10**

1 cr.: 36 wks.

**COURSE DESCRIPTION:** Required for all graduating students at Wyndmere High, this class will offer more exposure to classic literature. Lessons in grammar, vocabulary, reading and writing will continue during this year.



**COURSE TITLE: ENGLISH 11**

1 cr.: 36 wks.

**COURSE DESCRIPTION:** Required for all graduating students at Wyndmere High, this class will focus on American Literature. Novels will be read as well as continued lessons in grammar, reading, vocabulary and writing. All juniors will complete a research paper.



**COURSE TITLE: ENGLISH 12**

1 cr.: 36 wks.

**COURSE DESCRIPTION:** Required for all graduating students at Wyndmere High, this class will focus on British Literature, starting with the Canterbury Tales, Beowulf, Shakespeare's Macbeth, and more. Lessons in writing will be the focal point, as students prepare for college in the fall.  
All seniors will complete a 7-10 page research paper during this year.



## **Dual Credit English Courses**

**COURSE TITLE: ENGLISH 110: COLLEGE COMPOSITION I (NDSCS) FALL**

Grades 12, 1/2 cr., 3 College Credits: 18 wks.

**COURSE DESCRIPTION:** An introduction to college-level writing as a process of drafting, revising, and editing. This course emphasizes critical reading, writing, thinking and research skills and students write for a variety of audiences and purposes. Students will receive guided instruction in the writing process as they begin writing based on personal experiences. An introduction to proper crediting of course material and research will occur toward the end of the course.

**Student Cost: \*Approximately \$378.09-\$150=\$228.09**



**COURSE TITLE: ENGLISH 120: COLLEGE COMPOSITION II (NDSCS) SPRING**

Grades 12, 1/2 cr., 3 College Credits: 18 wks.

**COURSE DESCRIPTION:** Continued practice of college-level writing process and strategies, building on skills learned in English 110. This course refines critical reading, writing, thinking and research skills. Students will practice summary and analysis of texts, as well as synthesizing information from primary and secondary sources. Writing assignments will emphasize logical argument, persuasion and collaboration. Major assignments will require proper crediting of course material and research. Prerequisite: English 110.

**Student Cost: \*Approximately \$378.09-\$150=\$228.09**



# **Social Studies Courses**

**COURSE TITLE: CIVICS**

Grade 9, 1 cr.: 36 wks.

**COURSE DESCRIPTION:** A year-long course covering the following topics: American people & culture, development of the American government, American Constitution, duties & rights of citizenship, three branches of government, role of state governments, role of local governments, election process, taking part in the political system, government taxation and finance, personal finance (budget) & taxes, community involvement project.



**COURSE TITLE: WORLD HISTORY**

Grade 10, 1 cr.: 36 wks.

**COURSE DESCRIPTION:** A year-long course which covers the early civilizations and will finish in the 20th Century. When the students finish the course, they will have a better understanding of the people, events and inventions that have shaped their lives.



**COURSE TITLE: U.S. HISTORY**

Grade 11, 1 cr.: 36 wks.

**COURSE DESCRIPTION:** A year-long course which begins with the end of the Civil War and will end with the Vietnam War era. Students will have a better understanding of the growth of the United States from an infant nation into the only world superpower.



**COURSE TITLE: PSYCHOLOGY**

Grade 11-12, 1/2 cr.: 18 wks.

**COURSE DESCRIPTION:** A 12th grade elective that is given in the first semester over ITV. This course is designed to introduce students to the field of psychology. During the semester, students will learn about the principles, concepts, and theories that developed the basis of psychology. With the knowledge received, the students will be able to understand themselves and the people around them better. The tests and some assignments are given over Blackboard.



**COURSE TITLE: SOCIOLOGY**

Grade 11-12, 1/2 cr.: 18 wks.

**COURSE DESCRIPTION:** A 12th grade elective that is taken in the second semester over ITV. The course is geared at teaching the students how to look at society using the "sociological imagination". Students will learn about the people, events, and innovations that have shaped sociology. Students are required to type a report on a social issue each week. The class will also take a field trip to the Sundale Hutterian Colony. Tests and some assignments are also given over Blackboard.



**COURSE TITLE: NORTH DAKOTA STUDIES**

Grades 11-12, 1/2 cr.: 18 wks.

**COURSE DESCRIPTION:** A semester course covering the rich history of the state of North Dakota.



**COURSE TITLE: PROBLEMS OF DEMOCRACY**

Grade 12, 1 cr.: 36 wks.

**COURSE DESCRIPTION:** A 12th grade elective that runs a full school year. This class is an advanced course in civics/government. The students will study American Government from many perspectives (i.e. economical, social, political, historical, and geographical). The course will also emphasize current events and how they relate to the principles of government. After taking this class, the students will have a greater understanding of the importance government has on their lives and the impact they have on government.



**COURSE TITLE: PSYCH 111 INTRO to PSYCHOLOGY(Online Class with Approval)**

Grade 12, ½ cr, 3 College Credits; 18 weeks

Dual Credit Online

Requisite: Psychology and Sociology

COURSE DESCRIPTION: An introductory survey of the scientific study of human behavior and mental processes. This course will consist of an examination of psychology as a science and a profession. It will explore the biological foundations of behavior, sensing and perceiving the physical world, and normal and altered state of consciousness.

**COURSE TITLE: SOC 110 INTRO TO SOCIOLOGY(Online Class with Approval)**

Grade 12, ½ cr, 3 College Credits.:18 weeks

Dual Credit Online

Requisite: Psychology and Sociology

COURSE DESCRIPTION: An introductory class analyzing the nature of society, the interrelationship of its component groups and the process whereby society persists and changes. The concept of culture, the process of socialization, social inequalities (such as class, gender, age and race), minority groups, the family and social change will be the main topics discussed.

## **Math Courses**

**COURSE TITLE: ALGEBRA I**

Grade 8, 1 cr.: 36 wks.

**COURSE DESCRIPTION:** A year-long course organized around families of functions, with special emphasis on linear and quadratic functions. As students learn about each family of functions, they will learn to represent them in multiple ways-as verbal descriptions, equations, tables, and graphs. They will also learn to model real-world situations using functions in order to solve problems arising from those situations. Algebra I also includes lessons on probability and data analysis as well as numerous examples involving geometry.



**COURSE TITLE: GEOMETRY**

Grade 9, 1 cr.: 36 wks.

**COURSE DESCRIPTION:** A study of the properties, measurement, and relationships of points, lines, angles, surfaces, and solids. This course is for those students who have successfully completed Algebra I. Students will study deductive reasoning as well as relationships involved with geometric shapes.



**COURSE TITLE: ALGEBRA II**

Grades 10-12, 1 cr.: 36 wks.

**COURSE DESCRIPTION:** A continuation of the Saxon Series Algebra I. This course is a combination of geometry and algebra designed to teach students the basic algebraic concepts required on standardized tests, including the ACT.



**COURSE TITLE: ADVANCED MATH**

Grades 11-12, 1 cr.: 36 wks.

**COURSE DESCRIPTION:** A continuation of the Saxon Series Algebra I. This course will use the same textbook as the Algebra II course, however our study of the concepts will be accelerated. The goal of this course is to prepare students for Pre-Calculus/Calculus.



**COURSE TITLE: CONSUMER MATHEMATICS (Online Class with Approval)**

Grades 10-12; 1/2 cr.; 18 wks.

**COURSE DESCRIPTION:** Since entering school, mathematics has played a key role in your education. Math has been emphasized because it is essential in everyday life and in most vocations as well. Changes in the world during the past twenty years have been both dramatic and numerous. The primary objectives of this course are to prepare you for the world of work and to make intelligent use of income earned from your work.



**COURSE TITLE: PRE-CALCULUS/CALCULUS**

Grade 11-12, 1 cr.: 36 wks.

**COURSE DESCRIPTION:** The first semester of this course will focus on pre-Calculus (advanced math). It is designed for students who have successfully completed Geometry and Algebra II. The course takes a deeper look into functions and their graphs. Functions studied include polynomials, rational functions, exponential functions, logarithmic functions, and trigonometric functions. Students will also work with matrices, sequences, series, and probability. The second semester will move into Calculus, the branch of mathematics that deals with limits and the differentiation and integration of functions of one or more variables. This course is designed for advanced students who have completed or are currently studying senior math. Calculus deals with rates of change and the behavior of functions. Much of this course involves real-life examples and shows how calculus is used in many different industries.



# Dual Credit ITV Math Courses

**COURSE TITLE: COLLEGE ALGEBRA (MATH 103 NDSCS) FALL SEMESTER**

Grade 12, 1/2 cr., 3 College Credits : 18 wks.

**COURSE DESCRIPTION:** Relations and functions, equations and inequalities, real and complex numbers; numerical, graphical and symbolic view of functions; linear, quadratic, polynomial, rational, exponential and logarithmic functions; systems of equations, matrices and determinants, sequences and series. Emphasis on use of real-data application. Prerequisite: Math 102 or placement test.

**Student Cost: \*Approximately \$378.09-\$150=\$228.09**



**COURSE TITLE: FINITE MATHEMATICS (MATH 104 NDSCS) SPRING SEMESTER**

Grade 12, 1/2 cr., 3 College Credits : 18 wks.

PREREQUISITE: MATH 103

**COURSE DESCRIPTION:** Functions, linear functions and function notation; numerical, graphical and symbolic view of functions; systems of linear equations and inequalities, matrices and linear programming; mathematics of finance; sets, cardinality, elementary probability and descriptive statistics. Emphasis on use of real-data application. Course is intended for those majoring in business, social sciences or liberal arts.

**Student Cost: \*Approximately \$378.09-\$150=\$228.09**



**COURSE TITLE: MATH 146 APPLIED CALCULUS I (NDSCS)**

Grade 12, 1/2 cr., 4 College Credits: 18 wks.

**COURSE DESCRIPTION:** Review of algebra, including linear, quadratic, exponential and logarithmic functions, limits, continuity, rates of change, derivatives, extrema, anti-derivatives and integrals. Emphasis is placed on real-data application. Course is intended for those majoring in business, management, economics, or the life or social science. Prerequisite: Math 103 or Math 104 or placement exam.

**Student Cost: \*Approximately \$499.37-\$150=\$349.37**



**COURSE TITLE: MATH 147 APPLIED CALCULUS II (NDSCS)**

Grade 12, 1/2 cr., 4 College Credits: 18 wks.

PREREQUISITE: MATH 146

**COURSE DESCRIPTION:** Integrals, multivariable calculus, introduction to differential equations, probability and calculus, sequences and series, introduction to trigonometric functions, derivatives and integrals of trigonometric functions. Emphasis is placed on real-data application. Course is intended for those majoring in business, management, economics or the life or social sciences.

**Student Cost: \*Approximately \$499.37-\$150=\$349.37**





# **Science Courses**

**COURSE TITLE: PHYSICAL SCIENCE**

Grades 9, 1 cr.: 36 wks.

**COURSE DESCRIPTION:** Physical Science is a course that covers the basic concepts of chemistry and physics. This course involves lab work in the various areas of study as well as an introduction to a variety of topics that will be covered in elective science courses in upper grades. Students get a basic background in atomic structure and formula writing as well as the laws involved in motion.



**COURSE TITLE: BIOLOGY**

Grades 10, 1 cr.: 36 wks.

**COURSE DESCRIPTION:** Biology is the study of living things. You will study cellular structure and the development of organisms all the way up through mammals. Genetics is an important part of biology and is very useful for many careers that relate to health occupations or agricultural products. Many subjects from understanding the role of creatures in our environment to the role that bacteria and viruses play in our life. This course should help all students to better understand their own health care and the living things that are in the world around them.



**COURSE TITLE: CHEMISTRY**

Grades 11-12, 1 cr.: 36 wks.

**COURSE DESCRIPTION:** Chemistry is the study of matter and the changes it undergoes. You will study the make up of the atom and how and why atoms join together to form compounds. Naming compounds and writing equations will be covered as well as solution concentrations. This is a course that will be a great advantage for most students who are planning to attend college and will be a benefit for any technical field that is related to science. You will get laboratory experience that will improve your techniques and give you a more in-depth understanding of chemistry. Chemistry will help anyone have a greater appreciation and understanding of processes that occur all around us.



**COURSE TITLE: PHYSICS**

Grades 12, 1 cr.: 36 wks.

**COURSE DESCRIPTION:** Physics is the study of the types of energy and the changes they undergo. Some of the types of energy we will study include mechanical, heat, electrical, sound, light, and a variety of others. We will study the transfer of energy from one type to another as well as the conservation of matter and energy. This is an excellent course for students who are interested in careers such as engineering as well as for students who have a strong interest in science and how it applies to everyday life and a variety of careers. We will do a variety of labs that help to understand the types of energy and give us a practical knowledge of the material.



**COURSE TITLE: AP BIOLOGY**

GRADES 11-12, 1 cr.: 36 wks.

COURSE DESCRIPTION: A course that focuses on enduring, conceptual understandings and the content that supports them. This approach will enable students to spend less time on factual recall and more time on inquiry-based learning of essential concepts, and will help them develop the reasoning skills necessary to engage in the science practices used throughout their study of AP Biology.

Topics may include (but are not limited to): evolution, energy flow, reproduction, homeostasis, feedback mechanisms, ecology, genetics, and biological systems.



**COURSE TITLE: BOTONY**

GRADES 11-12, 1 cr.: 36 weeks

COURSE DESCRIPTION: Botony is a plant science based class with many hands-on activities. Students will explore the world of plant science through units in plant propagation, plant anatomy, soils, plant diseases and pests, entomology, landscape design, and floral design. Many labs will take place in the classroom greenhouse. Students will also design their own plant research project and plan the FFA spring plant sale.



**COURSE TITLE: ANATOMY**

**Physical Education Courses**

**COURSE TITLE: 9<sup>TH</sup> GRADE PHYSICAL EDUCATION**

1/2 cr.: 18 wks.

**COURSE DESCRIPTION:** The primary focus of these Physical Education classes is to introduce students to a variety of physical activities and provide sufficient time to enable students to explore where their interests and abilities lie. Through these activities students should be educated as to the value and means of achieving and maintaining health, physical fitness, good sportsmanship and lifetime skills.

**COURSE TITLE: 10<sup>TH</sup> GRADE PHYSICAL EDUCATION**

1/2 cr.: 36 wks.

**COURSE DESCRIPTION:** The primary focus of these Physical Education classes is to introduce students to a variety of physical activities and provide sufficient time to enable students to explore where their interests and abilities lie. Through these activities students should be educated as to the value and means of achieving and maintaining health, physical fitness, good sportsmanship and lifetime skills.



**COURSE TITLE: 10<sup>TH</sup> GRADE HEALTH**

1/2 cr.: 36 wks.

**COURSE DESCRIPTION:** A semester study of the following: wellness, personality, stress management, understanding mental disorders, developing relationships, food & nutrition (foods project), healthy diet, fitness & the body, infectious disease including STD's, drug use & abuse, and alcohol & tobacco.



**COURSE TITLE: LIFELONG FITNESS**

1/2 cr.: 18 wks.

**COURSE DESCRIPTION:** This course will be designed to create healthier choices for students at Wyndmere High School. It will also include activities that students can continue to do after they graduate from high school.



**Music Courses**

**COURSE TITLE: CONCERT CHOIR**

Grade: 9-12, 1/2 cr.: 36 wks.

**COURSE DESCRIPTION:** Concert Choir is a performance group. We present a Holiday Concert, Spring Concert, participate in Festival, prepare ensembles and solos for small group contest and some students perform at the Stars Concert.

The only requirement for joining the Concert Choir, is that you want to continue singing, to the best of your ability, and you are willing to be a member of a group that works toward excellence.

This course is a yearlong course and requires those who participate in it to remain in the class the entire year.



**COURSE TITLE: CONCERT BAND**

Grade: 9-12, 1/2 cr.: 36 wks.

**COURSE DESCRIPTION:** Concert Band is a performance group. Students will be required to participate in a Holiday Concert, music festivals, prepare for ensembles and solos for large and small group contest, and participate in the Stars Concert at the end of the year.

Knowledge of a musical instrument is a requirement for this course. This course is a yearlong course and requires those who participate in it to remain in the class the entire year.



**COURSE TITLE: MUSIC APPRECIATION/ GUITAR**

Grade 10-12, 1 cr.: 36 wks.

**COURSE DESCRIPTION:** The music appreciation class would encompass a variety of things within the realm of music. It would involve such things as music in our culture, music history that

would include Baroque, classical, contemporary and rock music. We would explore the development of rock music in our culture from the Beatles to rap music as well as the composers and performers of each era.

The class would also include some theory as well as listening and evaluating music. We would also explore music and it's relationship to the various arts, and includes composition using midi and music writing software.



## **Ag-Ed Courses**

**COURSE TITLE: Agricultural Education (AG-ED I)**

Grades 9-12, 1 credit; 36 weeks

Introduction to Agriculture is a comprehensive career/technical program designed to give students competencies in the areas of plant science, animal science including pets, soil science, personal finance, public relations, introductory mechanics, woodworking, natural resource conservation, human relations and leadership development.

**COURSE DESCRIPTION:** Lecture demonstration, lab type courses that actively involve students in the learning process of a variety of areas of agriculture. The course is designed to give students a basic introduction to the entire agricultural/agribusiness area. Knowledge and skills developed in this course are useful for all students later in life; whatever future plans and career they choose. The development of foundation leadership skills through the FFA are an integral part of this course.



**COURSE TITLE: Agricultural Education (AG-ED II)**

Grades 10-12, 1 credit; 36 weeks

**COURSE DESCRIPTION:** This course is designed to provide students with the foundation of principles and skills used in agriculture/agribusiness. It includes the use of a wide variety of tools and equipment in the lab. The course also incorporates science in applied settings using soils, plants and animals. This course offers a challenge to all students with its mechanical, science, metalworking, business and mathematical content.



**COURSE TITLE: AGRICULTURAL EDUCATION III**

Grades 11-12; 1 credit; 36 weeks

**PREREQUISITES:** Introduction to Agriculture, Foundations of Agriculture or upon approval of Director and Instructor

**COURSE DESCRIPTION:** Agriculture III builds on the principles and skills developed in Introduction to Agriculture and Foundations of Agriculture. In leadership development, human relation skills are improved with speeches, demonstrations and group planning & teamwork exercises. The mechanical skills are also further enhanced in welding and small engines. Mathematical skills are enhanced with practical application in soil and water engineering and business management. Bobcat Skidsteer loader operator and safety training, food processing in the mobile meats lab and small engines.



**COURSE TITLE: AGRICULTURAL EDUCATION IV**

Grades 11-12; 1 credit; 36 weeks

PREREQUISITES: Introduction to Agriculture, Foundations of Agriculture or upon approval of Director and Instructor

**COURSE DESCRIPTION:** This course has three major areas of instruction designed to broaden the skills and knowledge of the student to more areas of occupation in Agriculture. Electricity is designed to give the basic skills in wiring, applicable to a homeowner or in preparation for furthering a career in electricity. The sales and service unit is designed to promote a high level of job skill. By resume writing, filling out job applications, finding job information, interviewing and job retention skills, the sales and service unit is very valuable to a student. The general construction/fabrication unit gives an opportunity for students to incorporate woodworking and welding skills in the design and production of various projects. Global positioning equipment, advanced fabrication, and advanced use of various high tech. learning modules are imbedded in this senior level course.

**INSTRUCTIONAL OBJECTIVES AND/OR GOALS:** The objectives of Agriculture Education IV reflect the occupational needs of workers in agriculture/agribusiness. The students will develop the competencies of each unit of taxonomy in agriculture. Students will gain awareness and understanding of career opportunities in agriculture and the preparation needed to enter and progress in agriculture occupations. Students will understand those abilities in human relations, which are essential in today's occupations. Students will develop the competencies needed to fulfill occupational, social, and civic responsibilities.



**COURSE TITLE: AGRICULTURAL SCIENCE (ONLINE)**

Grades 11-12, 1 cr.; 36 wks.

**COURSE DESCRIPTION:** The Agri-Science course is practical in nature and blends theory from classroom instruction with practical, realistic simulations as well as hands on activities. Furthermore, students enrolled in this course actually meet each other on several occasions via field trips and group lab exercises. Topics include, but are not limited to, animal physiology, nutrition, health, and reproduction; natural resource management, focusing on soil and water as well as wildlife and fossil fuels produced in our state; electricity and basic electrical wiring, food science and food safety and food processing, as well as landscape design and related plant science. Students will be challenged to work both independently and collaboratively in each unit of instruction. In an effort to make the course more compatible with the trends in higher education, it is also required that each student have a SENDIT e-mail address to receive assignments and other class correspondence using Blackboard.



**COURSE TITLE: INTRODUCTION TO VETERINARY SCIENCES**

Grades 10-12; 1/2 cr.; 18 wks. (Either Semester)

**COURSE DESCRIPTION:** The basic concepts of veterinary medicine are presented. The course focuses on the different body systems of the major species of pets and domesticated agricultural animals. Each lesson examines concepts in veterinary medicine to provide the student with a broad understanding of today's field of veterinary science. The final lesson is a career research project that gives students the opportunity to investigate a specific career in veterinary medicine.



## ***Foreign Language Courses***

**COURSE TITLE: SPANISH I**

Grades 9-12, 1 cr.: 36 wks.

**COURSE DESCRIPTION:** Students will develop their ability to communicate in Spanish by working on reading, writing, and listening skills in Spanish. This course will also offer students an opportunity to learn about some of the cultural aspects of several Spanish-speaking countries. Some of the vocabulary themes studied in Spanish I are: clothing, sports, activities, foods, and the school day. Students' progress will be assessed through quizzes, projects, and tests.



**COURSE TITLE: SPANISH II**

Grades 10-12, 1 cr.: 36 wks. -- Prerequisite: Spanish I

**COURSE DESCRIPTION:** Students will continue to build on the skills learned in Spanish I. Some of the vocabulary themes in Spanish II are: nature, traveling, health, childhood, and working. The difficulty level is comparable to that of Spanish I.



**COURSE TITLE: SPANISH III**

Grades 11-12, 1 cr.: 36 wks. -- Prerequisites: Spanish I & II

**COURSE DESCRIPTION:** In this class students will review and build upon concepts learned in Spanish I and II. There will be an emphasis on oral communication. Students also will be introduced to some literary selections, and continue to learn about different cultural aspects of the Spanish-speaking world.



# **Business Courses**

**COURSE TITLE: COMPUTER APPLICATIONS**

Grades 9-12, 1/2 cr.: 18 wks.

**COURSE DESCRIPTION:** Students do word processing and desktop publishing activities using Microsoft Word, spreadsheet activities using Microsoft Excel, and slideshow presentations using Microsoft PowerPoint.



**COURSE TITLE: ADVANCED COMPUTER APPLICATIONS**

Grades 10-12, 1/2 cr.: 18 wks.

PREREQUISITE: COMPUTER APPLICATIONS

**COURSE DESCRIPTION:** Students create two iMovies, as well as use iPhoto and iTunes, they create PowerPoint presentations, they do word processing and desktop publishing activities, as well as integrated activities using Microsoft Word and Excel.



**COURSE TITLE: ACCOUNTING**

Grades 10-12, 1/2 cr.: 18 wks.

**COURSE DESCRIPTION:** Students learn how to do basic accounting procedures. They also cover banking and checking accounts, payroll, and do a variety of spreadsheets. Some of the accounting work is computerized, and students learn how to do automated accounting.



**COURSE TITLE: INTRO TO BUSINESS**

Grades 10-12, 1/2 cr.: 18 wks.

**COURSE DESCRIPTION:** Students are introduced to the world of business, and it prepares them for the economic roles as a consumer, worker, and citizen. It helps students with decision-making, prepares them for future employment, and helps them effectively perform their responsibilities as a citizen. Students will also create web sites for local businesses.



**COURSE TITLE: YEARBOOK**

Grades 12, 1 cr.: 36 wks.

**COURSE DESCRIPTION:** Students will be responsible for the production of the Wyndmere School yearbook. Duties will include advertising sales, design, and sale of the yearbook. Students will sign up with the understanding that additional time will be required after school has concluded in the spring to complete the yearbook.



## **Other Courses**

**COURSE TITLE: LEADERSHIP**

Grade: 12, 1/2 cr.: 18 wks.

**COURSE DESCRIPTION:** Leadership and Service class will explore self awareness, Leadership, Goal Setting, Organization, Communication, Problem Solving and Decision Making, Group Process, Conflict Resolution, Promoting Pluralism, and Evaluation. The class will also engage in service projects at least once a week such as reading to an elementary class, organizing a food drive, connecting with younger students, and world issues that arise throughout the course of the year. The class meets 5 days a week for a semester.



**COURSE TITLE: ANATOMY/PHYSIOLOGY**

Grades 11-12, 1 cr.: 36 wks. or 1/2 cr.: 18 wks

**COURSE DESCRIPTION:** The student will gain competencies in the area of the following anatomical structures: skeletal system, muscular system, respiratory system, endocrine system, urinary system, and reproductive system. A major goal of this class is for the student to achieve the understanding that one is to "think about" and "learn" human anatomy, instead of just memorizing it. A Biology prerequisite is encouraged, but not required. Class methodology will include: lecture, discussion, demonstration and hands-on applications. Having access to the Internet will be awarded in this class for several virtual tour lessons. The culminating year long activity will be a hands on body fair that will be presented to the elementary students.



**COURSE TITLE: FAMILY LIVING**

Grades: 11-12, 1 cr. 36 weeks or 1/2 cr. 18 weeks

**Course Content:** Family Living is a comprehensive course designed to help students interpret the nature, function, and significance of the family. Students will become acquainted with the factors affecting personality, identify the functions of relationships in family, friends, marriage, and learn decision making skills. It also covers health, lifestyle options, communication techniques, career information, identify parenting responsibilities, family crises and coping strategies. This class gives practical information to help deal with "real-life" situations and how consequences affect how you are and how your choices could affect your future.



**COURSE TITLE: BOTE 171 Medical Terminology (Online Class with Approval)**

Grade 12, ½ cr, 4 College Credits.:18 weeks

Dual Credit Online

Fall or Spring Semester

**COURSE DESCRIPTION:** Introduction to prefixes, suffixes and root words of medical terms and their meaning, spelling and pronunciation, with emphasis on building a working medical vocabulary based on body systems. Study of terminology related to pathology, diagnostic,



surgical, clinical and laboratory procedures, and common abbreviations and acronyms by body system.



**COURSE TITLE: NUTR 240 Principals of Nutrition (Online Class with Approval)**

Grade 12, ½ cr, 3 College Credits.:18 weeks

Dual Credit Online

Fall or Spring Semester

**COURSE DESCRIPTION:** A study of the basic principles of nutrition including: nutrition in the community, the role of nutrients in the maintenance of normal health and nutrition in the life cycle. Also included is the application of these principles to all age groups and for diet modification during illness.

## **ITV Courses**

**COURSE TITLE: DRAFTING TECHNOLOGY I**

Grades 11-12; 1 credit; 36 weeks-Drafting courses are available for college/dual credit.

**COURSE DESCRIPTION:** An introduction and practice in the use of manual drawing instruments, freehand lettering techniques, sketching, orthographic projection, section views, oblique drawing, isometric drawing, and basic dimensioning practices. This is a basic course for students entering a related field of drafting.



**COURSE TITLE: DRAFTING TECHNOLOGY II**

**PREREQUISITES: DRAFTING I**

Grades 11-12; 1 credit; 36 weeks

**COURSE DESCRIPTION:** This course is an introduction to the operation and application of computer-aided drafting utilizing the latest version of AutoCAD 2011 software. Drawing and editing commands are studied and utilized in a final project along with layers, dimensioning and text styles. Students also receive a set of AutoCAD software to use on their personal computer at no cost, valued at over \$600.



**COURSE TITLE: EMERGENCY MEDICAL TECHNICIAN**

Grades 11-12; 1 credit; 36 weeks.

**COURSE DESCRIPTION:** The EMT – basic class is an introductory course for the student who aspires to become an Emergency Medical Technical-Basic. Student learning will focus on human anatomy and physiology, disease process, initial assessment and patient stabilization, proper use of equipment such as automatic external defibrillators, blood glucose monitors, MAST Trousers, airway adjuncts as well as legal issues, scope of practice, extrication, documentation, communication, and ambulance protocols. A total of 16 hours of clinical experience will be scheduled in the Emergency Department to provide direct hands-on experience with a variety of patients. In addition, 16 hours of vehicular experience will be required. This course is designed to meet all State and National requirements to prepare in testing for the EMT-Basic via the National Registry Exam.



**COURSE TITLE: HEALTH CAREERS & SPORTS MEDICINE**

Grades 11-12; 1 credit; 36 weeks.

**COURSE DESCRIPTION:** This course is designed to provide an overview of the therapeutic, diagnostic, environmental, and information systems of the health care industry. Emphasis will be placed upon health careers, ethical and legal responsibilities, anatomy, physiology, client care, safety, first aid, CPR, and leadership development. A significant portion of this program includes a variety of lab and group projects where students are actively engaged. Computer assisted instruction, Blackboard, internet and social networking programs are all incorporated as part of the instruction. The health careers course will help prepare students for a wide variety of future post-secondary programs in Health Careers professions and provide students assistance in determining their own career and educational plans.



**COURSE TITLE: MARKETING EDUCATION I**

Grades 11-12, 1 Credit; 36 weeks

**COURSE DESCRIPTION:** Marketing I is an introductory course in the marketing curriculum with an emphasis in general business, retailing, marketing, merchandising, and management. Instructional areas also covered include salesmanship, business math, human relations, communications, and workplace skills. This course is a prerequisite for all other courses in the marketing program. The second semester of study in marketing includes retailing, visual merchandising, merchandise management, inventory control, buying and pricing, advertising development and media selection, and sales promotion.



**COURSE TITLE: SPORTS, ENTERTAINMENT & INTERNET MARKETING**

Grades 11-12; 1 credit; 36 weeks.

**COURSE DESCRIPTION:** Sports & Entertainment Marketing is a business course designed to use today's broad based athletic, sports and entertainment dynamic as a foundation for students to learn communications skills in concert with advertising, sales, marketing, and media development. Students will learn how to develop marketing strategies with a focus on advertising media targeted at the world of college and professional athletics and major entertainment venues. The final project for the class will consist of student developed multi-media presentations for the marketing of a professional athletic team or major entertainment

attraction. Internet marketing activities will include learning how to utilize Google research and marketing tools and how to market and sell items with on-line auction tools including actual set-up and live sales on E-Bay.

## ***Vo-Tech Course Descriptions***

**COURSE TITLE: AUTOMOTIVE TECHNOLOGY**

Grades 11-12; 2 credits; 36 weeks.

COURSE ELIGIBLE FOR DUAL CREDIT THROUGH NDSCS

**COURSE DESCRIPTION:** Automotive Technology I is a comprehensive vocational automotive program designed to give students an understanding of the operation and maintenance of the modern automobile. Program emphasis is in the major area of basic service, fuel systems, engine tune-up, electrical systems, engine overhaul, and chassis systems.

Upon completion of the course, students will have a basic understanding of the operation, maintenance, and repair of engine systems, electrical systems, fuel systems, and chassis systems. Students will be able to demonstrate proper human relations and communications skills in a working environment as well as develop basic skills in job seeking and career development.

AUTOMOTIVE TECHNOLOGY COURSE HELD AT NDSCS



**COURSE TITLE: AUTOMOTIVE TECHNOLOGY II**

**PREREQUISITE: AUTOMOTIVE TECHNOLOGY I**

Grade 12; 2 credits; 36 weeks.

COURSE ELIGIBLE FOR DUAL CREDIT THROUGH NDSCS

**COURSE DESCRIPTION:** Automotive Technology II is a comprehensive vocational/technical automotive program designed to give students an understanding of the operation, maintenance, repair, and light diagnosis of the modern vehicle. Program emphasis is in the major areas of basic service, fuel systems, electronic ignition systems, engine tune-up, electrical systems, engine overhaul, and chassis systems. Also included are many opportunities to work with modern technological components and systems such as laser assisted diagnostic equipment, computer auto systems and test equipment, and electronics applications.

At the conclusion of the course, the students will understand the function of each unit and its components as it relates to the automobile. They will also be able to identify parts, handle most repair procedures, test procedures, and minor diagnostic procedures as outlined by the manufacturers. Students will be able to demonstrate proper human relations and

communications skills in a working environment as well as develop basic skills in job seeking and career development. This is a two-time national award winning program that provides students the opportunity to take the Automotive Service Excellence (ASE) national exam and go into a college setting with advanced standing.

Instructors: Mr. Harlan Arneson, Mr. Charles Campbell, Mr. Brian Rempfer

AUTOMOTIVE TECHNOLOGY COURSE HELD AT NDSCS



**COURSE TITLE: CONSTRUCTION TECHNOLOGY I**

Grades 11-12; 2 credits; 36 weeks.

COURSE ELIGIBLE FOR DUAL CREDIT THROUGH NDSCS

**COURSE DESCRIPTION:** The Construction Technology Program is designed for students who like to work with their hands, build, be innovative, take pride in a finished project, and have an interest in carpentry or related area. Students who already have some basic shop skills or want to start a construction trade’s career can gain a wide variety of skills and experience from the Construction Technology Program.

The Construction Technology Program is designed to give students entry-level construction skills and to be able to perform most residential construction tasks including reading blueprints, calculating measurements, house framing, and finishing. Students build a completely finished house as a way to practice and develop skills in a residential construction.



**COURSE TITLE: CONSTRUCTION TECHNOLOGY II**

**PREREQUISITE: CONSTRUCTION TECHNOLOGY I**

Grade 12; 2 credits; 36 weeks.

COURSE ELIGIBLE FOR DUAL CREDIT THROUGH NDSCS

**COURSE DESCRIPTION:** Students in Construction Technology II assume a leadership role as student foreman on the job site. Students will help with the instruction of first year students by providing a helping hand and using the experience of their first year instruction. In addition, students will have “hands on” experience with power tools, blueprints, wall and partition layout, roof framing and shingling, as well as exterior finish work and soffits. Students will be involved with drywall application and finishing, woodwork, trim, cabinets, and door hanging. CT II students also work with electrical and plumbing contractors and are responsible for the interior finish phase of the house projects including detailing and hardwood trim.

Upon completion of the Construction Technology II Program, students will be able to construct a freestanding wood frame structure, read blueprints, complete residential wiring and plumbing projects as well as demonstrate proficiency in finish carpentry. Students will also have entry level skills in all competency areas of wood frame and residential construction.

Instructor: Mr. Richard Kurowski



**COURSE TITLE: DRAFTING TECHNOLOGY I**

Grades 11-12; 2 credits; 36 weeks.

**COURSE DESCRIPTION:** Drafting Technology is technical course with three major components in the instructional area. These include the area of engineering drawing and architectural drafting. Students also develop technical lettering skills and develop proficiency in the use of drafting equipment, scales, and learn about building specifications and design. The second segment focuses on computer-assisted drafting (CAD). Currently AutoCAD Release 14 and Auto Cad 2000 software is used. Engineering drawing and architectural skills are developed and expanded on by using the computer as a drawing tool. In addition, students draw house floor plans and elevations that are can be used for blueprints for construction of a house. The third segment includes freehand drawing, drawing perspectives, renderings, and pen and pencil sketching.



**COURSE TITLE: DRAFTING TECHNOLOGY II**  
**PREREQUISITE: DRAFTING TECHNOLOGY I**  
Grade 12; 2 credits; 36 weeks.

**COURSE DESCRIPTION:** Advanced drafting skills with a focus on development of comprehensive construction documents using AutoCAD. Also included is the study of building materials, estimating, construction planning, and project demonstration and sales in a teamwork setting with a concurrent focus on skill sets that relate to engineering and architecture. Laptop computers provided for Drafting II students.

Produce a student who has initial mastery of instrument drawing, fundamental computer assisted drafting, and architectural drafting skills primarily in the residential area.

Instructor: Mr. Wayne Steiner

DRAFTING COURSES HELD AT NDSCS



**COURSE TITLE: MEDICAL & HEALTH SCIENCE I**  
Grades 11-12; 1 credit; 36 weeks

**COURSE DESCRIPTION:** This course is designed to provide an overview of the therapeutic, diagnostic, environmental, and information systems of the health care industry. Curriculum involves History and Current Trends in Medicine, Careers in the Medical Field, Personal Characteristics Necessary to work in the Medical Field, Legal and Ethical Issues in Medicine, Growth and Development of the Human Body and Mind, Technology in Medicine, Sudden Injury and Illness Management, and Patient Assessment Skills. A significant portion of this program includes a variety of lab and group projects where students are actively engaged. Computer assisted instruction, Brain Honey, internet and social networking programs are all incorporated as part of the instruction. The Medical and Health Sciences I course will provide students assistance in determining their own career and educational plans.



**COURSE TITLE: MEDICAL & HEALTH SCIENCE II**  
Grades 11-12; 1 credit; 36 weeks

Pre-requisite: Previous or Concurrent Medical and Health Science I

**COURSE DESCRIPTION:** This course is designed to provide information and overview of the therapeutic, diagnostic, environmental, and information systems of the health care industry. Curriculum involves Anatomy and Physiology including Pathophysiology and treatment of diseases/illness, CPR instruction and certification, Geriatrics and the Aging Process, Cultural Diversity in Medicine, Diet and Nutrition, and Preparing for the Work World. A significant portion of this program includes a variety of lab and group projects where students are actively engaged. Computer assisted instruction, Brain Honey, internet and social networking programs are all incorporated as a part of the instruction. The Medical and Health Sciences II course will provide students assistance in determining their own career and educational plans



**COURSE TITLE: RESTAURANT MANAGEMENT AND CHEF TRAINING**  
Grades 11-12; 2 credits; 36 weeks.

**COURSE DESCRIPTION:** This course of study is designed to provide students with skills in the food service and hospitality industries. This includes food preparation, service techniques, restaurant management and operation of food service businesses. Students will learn a variety of chef functions including menu planning, control, human relations, catering, baking, and employee supervision. Students will work in lab settings that focus on the actual preparation and serving of professionally prepared meals.

Upon completion of the Restaurant Management and Chef Training program students will be prepared for careers in the food service industry as cooks, bakers, mid-level restaurant managers, catering employees, and a variety of positions in institutional food service settings such as schools, hospitals, and colleges.

Instructor: Mr. Jerry Prante

# **WORK EXPERIENCE**

## **COURSE TITLE: COOPERATIVE WORK EXPERIENCE**

Grade 12; 1 credit; 36 weeks.

**COURSE DESCRIPTION:** ELECTIVE: Open to all students currently enrolled or who have been enrolled in a vocational, technical, business, or agriculture education program.

**CREDIT:** 1                      Upon completion of 360 clock hours of approved on-the-job training.

**PREREQUISITES:**        Past or present enrollment in a Vo-Tech class

Cooperative Work Experience is designed to provide students with on-the-job training and practical experience in addition to a comprehensive high school education. Students work at jobs relating to their individual career interests and are supervised by their employer and coordinator/instructors that also complete evaluations on each student's work performance. Students are paid so they can earn and learn at the same time. Students should average about 10 hours per week; 360 hours during the school year for one credit.

- Variations of the work experience program are available to students in the Special Needs Program and are coordinated by the STW Coordinator. A non-co-op, straight Work Experience Program may be approved for students who have not taken a Vo-Tech class as approved by the School-To-Work Coordinator and Home School Principal.

The following guidelines are provided to give students interested in or involved in the Cooperative Work Experience Program a list of expectations and requirements for successful involvement and completion of the program.

- 1) All students must be in attendance and registered on a full time basis. For seniors one registered period per day may be for a qualified cooperative work experience component. Release from school will be granted for one period per day as part of that experience.
- 2) For 9th, 10th, and 11th grade students, no release from school is permitted for cooperative work experience. Juniors may be released from school only by special exception. This exception must have approval from the home school principal, counselor, and vocational director.
- 3) ***Students must register for the Cooperative Work Experience Program just as they register for any other class with appropriate approval from parents and their high school principal.***
- 4) Students are not to count on their credit from the cooperative work experience program in meeting their high school graduation requirements. Loss of employment or a change in job availability will not be allowed to prevent a student from graduating from high school.
- 5) Students enrolled in the Cooperative Work Experience Program are expected to maintain passing grades in school, maintain regular attendance and not allow their out of school work to conflict with their educational program.



- 6) Students who enroll in Cooperative Work Experience do not have to use school time to take part in the program, but may include after school or weekend hours in order to balance the time requirements of school, studies, extra-curricular involvement, and still enjoy a cooperative work experience job.
- 7) One unit of credit will be granted for successful completion of all requirements of the Cooperative Work Experience Program. A limit of one credit is placed upon a student for a work experience that takes place at one job station. These requirements include:
  - a. Students are receiving or have received instruction in a vocational, technical, business, or agriculture education program.
  - b. 360 hours of work experience = 1 Credit. This is an average of 10 hours per week.
  - c. The work station/job site conforms to state and federal wage and hour laws and regulations.
  - d. Students maintain the required wage and hour documentation.
  - e. Fulfilling the requirements set forth by the supervising teacher-coordinator.

