

## 2015-2016 North Dakota Advanced Placement (AP) Course Codes

### Computer Science Education

Course Code	Course Name	Grade Levels	Description
23580	Advanced Placement Computer Science A©	10-12	Following the College Board's suggested curriculum designed to mirror college-level computer science courses, AP Computer Science A courses provide students with the logical, mathematical, and problem-solving skills needed to design structured, well-documented computer programs that provide solutions to real-world problems. This course covers such topics as programming methodology, features, and procedures; algorithms; data structures; computer systems; and programmer responsibilities.
23581	Advanced Placement Computer Science AB©	10-12	Following the College Board's suggested curriculum designed to mirror college-level computer science courses, AP Computer Science AB courses (in addition to covering topics included in AP Computer Science A) provide a more formal and extensive study of program design, algorithms, data structures, and execution costs.

### English/Language Arts

05580	Advanced Placement English Language & Composition©	10-12	Following the College Board's suggested curriculum designed to parallel college-level English courses, AP English Language and Composition exposes students to prose written in a variety of periods, disciplines, and rhetorical contexts. This course emphasizes the interaction of authorial purpose, intended audience, and the subject at hand, and through them, students learn to develop stylistic flexibility as they write compositions covering a variety of subjects that are intended for various purposes.
05581	Advanced Placement English Literature and Composition©	10-12	Following the College Board's suggested curriculum designed to parallel college-level English courses, AP English Literature and Composition enables students to develop critical standards for evaluating literature. Students study the language, character, action, and theme in works of recognized literary merit; enrich their understanding of connotation, metaphor, irony, syntax, and tone; and write compositions of their own (including literary analysis, exposition, argument, narrative, and creative writing).

### Fine Arts

02580	Advanced Placement Art History©	10-12	Designed to parallel college-level Art History courses, AP Art—History of Art provides the opportunity for students to critically examine architecture, sculpture, painting, and other art forms within their historical and cultural contexts. In covering the art of several centuries (not necessarily in chronological order), students learn to identify different styles, techniques, and influences and to formulate and articulate their reactions to various kinds of artwork.
02581	Advanced Placement Studio Art (Drawing Portfolio)©	10-12	Designed for students with a serious interest in art, AP Studio Art—Drawing Portfolio enables students to refine their skill and create artistic works to be submitted to the College Board for evaluation. Given the nature of the AP evaluation, the courses typically emphasize quality of work, attention to and exploration of a particular visual interest or problem, and breadth of experience in the formal, technical, and expressive aspects of drawing. In this course, students explore representation, abstraction, and experimentation with a variety of drawing materials.
02582	Advanced Placement Studio Art (2-D Design Portfolio)©	10-12	Designed for students with a serious interest in art, AP Studio Art—2-D Design Portfolio enables students to refine their skill and create artistic works to be submitted to the College Board for evaluation. Given the nature of the AP evaluation, the courses typically emphasize quality of work, attention to and exploration of a particular visual interest or problem, and breadth of experience in the formal, technical, and expressive aspects of drawing. In this course, students explore representation, abstraction, and experimentation with a variety of drawing materials.
02583	Advanced Placement Studio Art (3-D Design Portfolio)©	10-12	Designed for students with a serious interest in art, AP Studio Art—3-D Design Portfolio enables students to refine their skill and create artistic works to be submitted to the College Board for evaluation. Given the nature of the AP evaluation, the courses typically emphasize quality of work, attention to and exploration of a particular visual interest or problem, and breadth of experience in the formal, technical, and expressive aspects of drawing. In this course, students explore representation, abstraction, and experimentation with a variety of drawing materials.
02584	Advanced Placement Studio Art (General Portfolio)	10-12	Designed for students with a serious interest in art, AP Studio Art—General Portfolio enables students to refine their skills and create artistic works to be submitted to the College Board for evaluation. Given the nature of the AP evaluation, the courses typically emphasize quality of work, attention to and exploration of a particular visual interest

			or problem, and breadth of experience in the formal, technical, and expressive aspects of the student's art. AP Studio Art—General Portfolio evaluations require submission of artwork exemplifying talent in drawing, color organization, design, and sculpture.
12580	Advanced Placement Music Theory©	10-12	AP Music Theory is designed to be the equivalent of a first-year music theory college course as specified by the College Board. AP Music Theory develops students' understanding of musical structure and compositional procedures. Usually intended for students who already possess performance-level skills, AP Music Theory extends and builds upon students' knowledge of intervals, scales, chords, metric/rhythmic patterns, and the ways they interact in a composition. Musical notation, analysis, composition, and aural skills are important components of the course.

## Foreign Language

06580	Advanced Placement French Language©	10-12	Designed to parallel third-year college-level courses in French Composition and Conversation, AP French Language builds upon prior knowledge and develops students' ability to understand others and express themselves (in French) accurately, coherently, and fluently. Students will develop a vocabulary large enough to understand literary texts, magazine/newspaper articles, films and television productions, and so on.
06581	Advanced Placement French Literature©	10-12	Designed to parallel college-level Introduction to French Literature courses (offered at a third year level), AP French Literature covers representative works of French literature and build students' French language proficiency so that they are able to read and understand moderately difficult prose and express critical opinions and analyses in correct oral and written French. The study of literary components (such as character, theme, structure, imagery, style, tone, and so on) is an important focus of AP French Literature.
06586	Advanced Placement German Language©	10-12	Designed to parallel third-year college-level courses in German Language, AP German Language builds upon prior knowledge and develop students' ability to understand spoken German in various conversational situations, to express themselves (in German) accurately and fluently, and to have a command of the structure of the German language. Students will develop a vocabulary large enough to understand literature, magazine/newspaper articles, films and television productions, and so on.
06582	Advanced Placement Latin Literature©	10-12	Designed to parallel advanced college-level courses in Latin studies, AP Latin builds upon and increase knowledge of Latin, enabling students to read the language with comprehension, to accurately translate Latin into English, and to appreciate the stylistic literary techniques used by the authors. AP Latin also includes study of the political, social, and cultural background of the literary works and their authors, as well as their influence on later literature.
06583	Advanced Placement Latin: Vergil©	10-12	Designed to parallel advanced college-level courses in Latin studies, AP Latin builds upon and increase knowledge of Latin, enabling students to read the language with comprehension, to accurately translate Latin into English, and to appreciate the stylistic literary techniques used by the authors. AP Latin also includes study of the political, social, and cultural background of the literary works and their authors, as well as their influence on later literature.
06584	Advanced Placement Spanish Language©	10-12	Designed by the College Board to parallel third-year college-level courses in Spanish Composition and Conversation, AP Spanish Language builds upon prior knowledge and develop students' ability to understand others and express themselves (in Spanish) accurately, coherently, and fluently in both formal and informal situations. Students will develop a vocabulary large enough to understand literary texts, magazine/newspaper articles, films and television productions, and so on.
06585	Advanced Placement Spanish Literature©	10-12	Designed by the College Board to parallel college-level Introduction to Hispanic Literature courses, AP Spanish Literature covers representative works from the literatures of Spain and Spanish America, encompassing all genres. This course builds students' Spanish language proficiency so that they are able to read and understand moderately difficult prose and express critical opinions and literary analyses in oral and written Spanish (an ability equivalent to having completed a third-year college-level Spanish Language course).

## Mathematics

11580	Advanced Placement Statistics©	10-12	Following the College Board's suggested curriculum designed to parallel college-level statistics courses, AP Statistics introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference.
11581	Advanced Placement Calculus AB©	10-12	Following the College Board's suggested curriculum designed to parallel college-level calculus courses, AP Calculus AB provides students with an intuitive understanding of the concepts of calculus and experience with its methods and applications. This course introduces calculus and include the following topics: elementary functions; properties of functions and their graphs; limits and continuity; differential calculus (including definition of the derivative, derivative formulas, theorems about derivatives, geometric applications, optimization problems, and rate-of-change problems); and integral calculus (including antiderivatives and the definite integral).
11582	Advanced Placement Calculus BC©	10-12	Following the College Board's suggested curriculum designed to parallel college-level calculus courses, AP Calculus BC provides students with an intuitive understanding of the concepts of calculus and experience with its methods and applications, and also require additional knowledge of the theoretical tools of calculus. This course assumes a thorough knowledge of elementary functions, and cover all of the calculus topics in AP Calculus AB as well as the following topics: vector functions, parametric equations, and polar coordinates; rigorous definitions of finite and nonexistent limits; derivatives of vector functions and parametrically defined functions; advanced techniques of integration and advanced applications of the definite integral; and sequences and series.

## Science

13580	Advanced Placement Biology©	10-12	Adhering to the curricula recommended by the College Board and designed to parallel college level introductory biology courses, AP Biology stresses basic facts and their synthesis into major biological concepts and themes. This course covers three general areas: molecules and cells (including biological chemistry and energy transformation); genetics and evolution; and organisms and populations (i.e., taxonomy, plants, animals, and ecology). AP Biology courses include college-level laboratory experiments.
13581	Advanced Placement Chemistry©	10-12	Following the curricula recommended by the College Board, AP Chemistry usually follows high school chemistry and second-year algebra. Topics covered may include atomic theory and structure; chemical bonding; nuclear chemistry; states of matter; and reactions (stoichiometry, equilibrium, kinetics, and thermodynamics). AP Chemistry laboratories are equivalent to those of typical college courses.
13582	Advanced Placement Environmental Science©	10-12	AP Environmental Science is designed by the College Board to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, identify and analyze environmental problems (both natural and human made), evaluate the relative risks associated with the problems, and examine alternative solutions for resolving and/or preventing them. Topics covered include science as a process, ecological processes and energy conversions, earth as an interconnected system, the impact of humans on natural systems, cultural and societal contexts of environmental problems, and the development of practices that will ensure sustainable systems.
13584	Advanced Placement Physics C: Electricity and Magnetism©	10-12	Designed by the College Board to parallel college-level physics courses that serve as a partial foundation for science or engineering majors, AP Physics C primarily focuses on 1) mechanics and 2) electricity and magnetism, with approximately equal emphasis on these two areas. AP Physics C courses are more intensive and analytical than AP Physics B courses and require the use of calculus to solve the problems posed.
13585	Advanced Placement Physics C: Mechanics©	10-12	Designed by the College Board to parallel college-level physics courses that serve as a partial foundation for science or engineering majors, AP Physics C primarily focuses on 1) mechanics and 2) electricity and magnetism, with approximately equal emphasis on these two areas. AP Physics C courses are more intensive and analytical than AP Physics B courses and require the use of calculus to solve the problems posed.
13586	Advanced Placement Physics 1: Algebra-Based	10-12	Designed by the College Board to parallel college-level physics courses, AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; introductory, simple circuits; and provides a foundation for future course work in physics. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills.

13587	Advanced Placement Physics 2: Algebra-Based	10-12	Designed by the College Board to parallel college-level physics courses, AP Physics 2 is an algebra-based, introductory college-level physics course that explores topics such as fluid statics and dynamics; thermodynamics with kinetic theory, PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; quantum, atomic and nuclear physics; and provides a foundation for future course work in physics. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills.
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## Social Studies

15580	Advanced Placement Macroeconomics©	10-12	Following the College Board's suggested curriculum designed to parallel college-level macroeconomics, AP Macroeconomics provides students with a thorough understanding of the principles of economics that apply to an economic system as a whole. They place particular emphasis on the study of national income and price determination and developing students' familiarity with economic performance measures, economic growth, and international economics.
15581	Advanced Placement Microeconomics©	10-12	Following the College Board's suggested curriculum designed to parallel college-level microeconomics, AP Microeconomics provides students with a thorough understanding of the principles of economics that apply to the functions of individual decision makers (both consumers and producers). They place primary emphasis on the nature and functions of product markets, while also including a study of factor markets and the role of government in the economy.
15582	Advanced Placement Comparative Government & Politics©	10-12	Following the College Board's suggested curriculum designed to parallel college-level Comparative Government and Politics courses, this course offers students an understanding of the world's diverse political structures and practices. The course encompasses the study of both specific countries and general concepts used to interpret the key political relationships found in virtually all national policies. Course content generally includes sources of public authority and political power, the relationship between states and society, the relationships between the political and institutional frameworks of citizens and states, political change, and comparative methods.
15583	Advanced Placement United States Government & Politics©	10-12	Following the College Board's suggested curriculum designed to parallel college-level U.S. Government and Politics courses, this course provides students with an analytical perspective on government and politics in the United States, involving both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. The course generally covers the constitutional underpinnings of the U.S. government, political beliefs and behaviors, political parties and interest groups, the institutions and policy process of national government, and civil rights and liberties.
15584	Advanced Placement European History©	10-12	Following the College Board's suggested curriculum designed to parallel college-level European History courses, AP European History examines European civilization from the High Renaissance period to the recent past and also expose students to the factual narrative. In addition, this course helps students develop an understanding of some of the principal themes in modern European history and the abilities to analyze historical evidence and to express that understanding and analysis in writing.
15585	Advanced Placement United States History©	10-12	Following the College Board's suggested curriculum designed to parallel college-level U.S. History courses, AP U.S. History provides students with the analytical skills and factual knowledge necessary to address critically problems and materials in U.S. history. Students learn to assess historical materials and to weigh the evidence and interpretations presented in historical scholarship. The course examines the discovery and settlement of the New World through the recent past.
15586	Advanced Placement World History©	10-12	Following the College Board's suggested curriculum designed to parallel college-level World History courses, AP World History examines world history from 8000 BCE to the present with the aim of helping students develop a greater understanding of the evolution of global processes and contracts and how different human societies have interacted. This course highlights the nature of changes in an international context and explores their causes and continuity.
15587	Advanced Placement Human Geography©	10-12	Following the College Board's suggested curriculum designed to parallel college-level Human Geography courses, AP Human Geography introduces students to the systematic study of patterns and processes that have shaped the ways in which humans understand, use, and alter the earth's surface. Students use spatial concepts and landscape analysis to examine human social organization and its environmental consequences and also learn about the methods and tools geographers use in their science and practice.

15588	Advanced Placement Psychology©	10-12	Following the College Board's suggested curriculum designed to parallel a college-level psychology course, AP Psychology courses introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals, expose students to each major subfield within psychology, and enable students to examine the methods that psychologists use in their science and practice.
15589	Advanced Placement Government	10-12	AP Government courses prepare students for the AP exams in both U.S. Government and Politics and Comparative Government and Politics. Course content includes the topics covered in those two separate courses as described above.
15590	Advanced Placement Economics	10-12	AP Economics courses prepare students for the College Board's examinations in both Microeconomics and Macroeconomics; these courses include the content of the two separate courses as described above.