SCED Course Code Mapping

School Courses for the Exchange of Data (SCED) is a voluntary, common classification system for prior-to-secondary and secondary school courses. It can be used to compare course information, maintain longitudinal data about student coursework, and efficiently exchange course-taking records. SCED is based on a five-digit Course Code that provides a basic structure for classifying course content. Additional SCED elements and attributes provide descriptive information about each course.

SCED is updated and maintained by a working group of federal, state, and local educational agency (LEA) representatives who receive suggestions and assistance from a wide network of subject matter experts at the national, state, and local levels. As a result, SCED is designed to be flexible enough that education agencies can modify it to meet their needs.

For a comprehensive list of all 5-digit SCED Course Codes visit National Forum on Education Statistics - SCED Guides and download current SCED File Version 12.0.

Math SCED Codes

Algebra I is a college-preparatory course that includes: the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; and solving simple quadratic equations. Algebra I is a foundational course leading to higher-level mathematics courses, including Geometry and Algebra II.

SCED codes for Algebra I classes

02052: Algebra I 02053: Algebra I - Part 1 02054: Algebra I - Part 2 02058: Particular Topics in Algebra 02069: Algebra- Other	02155: Business Math with Algebra 02156: Computer Math with Algebra ***(Integrate Math Course Rules Apply)*** 02062: Integrated Mathematics I 02063: Integrated Mathematics II

Algebra II college-preparatory course topics typically include the following: field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; properties of higher degree equations; operations with rational and irrational exponents.

SCED codes for Algebra II classes

02056: Algebra II
02069: Algebra - Other
02131: IB Mathematical Studies
(Integrated Math Course Rules Apply, LEA must make determination according to curriculum)

02064: Integrated Mathematics III
02065: Integrated Mathematics IV

Advanced mathematics college-preparatory courses cover the following topics: trigonometry; trigonometry/algebra; trigonometry/analytic geometry; trigonometry/math analysis; analytic geometry; math analysis; math analysis/analytic geometry; probability and statistics; pre-calculus.

Trigonometry courses prepare students for eventual work in calculus, and typically include the following topics: trigonometric and circular functions; inverses and graphs; relations among the parts of a triangle; trigonometric identities and equations; solutions of right and oblique triangles; complex numbers.

Analytic geometry courses include: the study of the nature; intersection of lines and planes in space.

Math analysis courses include: the study of polynomial, logarithmic, exponential, and rational functions and their graphs; vectors; set theory; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; limits and continuity.

Probability and statistics courses introduce the study of likely events and the analysis, interpretation, and presentation of quantitative data.

Pre-calculus courses combine the study of trigonometry, elementary functions, analytic geometry, and math analysis topics as preparation for calculus.

SCED codes for Advanced Mathematics classes

02055: Transition Algebra	02113: Abstract Algebra
02057: Algebra III	02135: IB Mathematics, Middle Years Program
02062: Integrated Mathematics I	02136: Finite Mathematics
02063: Integrated Mathematics II	02137: Mathematical Modeling
02064: Integrated Mathematics III	02138: College Mathematics Preparation
02065: Integrated Mathematics IV	02139: IB Mathematics: Applications and Interpretation
02073: Analytic Geometry	02140: IB Mathematics: Analysis and Approaches
02101: Number Theory	02141: Particular Topics in Analytic Mathematics
02103: Trigonometry	02149: Analytic Mathematics—Other
02104: Math Analysis	02201: Probability and Statistics
02105: Trigonometry/Math Analysis	02202: Inferential Probability and Statistics
02106: Trigonometry/Algebra	02203: AP Statistics
02107: Trigonometry/Analytic Geometry	02204: Particular Topics in Probability and Statistics
02108: Math Analysis/Analytic Geometry	02205: Statistics
02109: Elementary Functions	02209: Probability and Statistics—Other
02110: Pre-Calculus	
02111: Linear Algebra	
02112: Linear Programming	

Calculus is a college-preparatory course where topics include the study of derivatives, differentiation, integration of the definite and indefinite integral, and applications of calculus. Typically, students have previously attained knowledge of pre-calculus topics (some combination of trigonometry, elementary functions, analytic geometry, and math analysis).

SCED codes for Calculus classes

02121: Calculus 02122: Multivariate Calculus 02123: Differential Calculus	02124: AP Calculus AB 02125: AP Calculus BC 02126: Particular Topics in Calculus

Geometry is a college-preparatory course that includes topics such as: properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles. Geometry is considered a prerequisite for Algebra II.

SCED codes for Geometry classes

02071: Informal Geometry
02072: Geometry
02075: Particular Topics in Geometry
02079: Geometry—Other
02131: IB Mathematical Studies
(Integrated Math Course Rules Apply, LEA must make determination according to curriculum)

02063: Integrated Mathematics II
02064: Integrated Mathematics III

Science SCED Codes

Biology college-preparatory courses are designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy.

SCED codes for Biology classes

03051: Biology 03052: Biology - Advanced Studies 03053: Anatomy and Physiology 03054: Anatomy 03055: Physiology 03056: AP Biology 03057: IB Biology 03058: Botany 03059: Genetics 03060: Microbiology	03061: Zoology 03062: Conceptual Biology 03063: Particular Topics in Biology 03064: Regional Biology 03098: Biology – Workplace Experience 03099: Biology - Other 03203: Applied Biology/Chemistry 03065: IB Sports, Exercise, and Health Science 03066: PLTW Principles of Biomedical Science

Chemistry college-preparatory courses involve studying the composition, properties, and reactions of substances. These courses typically explore 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.

SCED codes for Chemistry classes

03101: Chemistry	03106: AP Chemistry
03102: Chemistry - Advanced Studies	03107: IB Chemistry
03103: Organic Chemistry	03108: Particular Topics in Chemistry
03104: Physical Chemistry	03148: Chemistry—Workplace Experience
03105: Conceptual Chemistry	03149: Chemistry - Other

Physics college-preparatory courses involve 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.

SCED codes for Physics classes

03151: Physics	03161: Conceptual Physics
03152: Physics - Advanced Studies	03162: Particular Topics in Physics
03153: Principles of Technology	03163: AP Physics C: Electricity and Magnetism
03155: AP Physics B	03164: AP Physics C: Mechanics
03156: AP Physics C	03165: AP Physics 1
03157: IB Physics	03166: AP Physics 2
03159: Physical Science	03199: Physics – Other
03160: IB Physical Science	

Computer Science SCED Codes

Computer science courses involve the study of computers and algorithmic processes, including their principles, hardware and software designs, applications, and their impact on society. They often include computer programming or coding as a tool to create things like software, applications, games, websites, and electronics, managing large databases of information, legal and ethical issues involved in computer technology use, and network security. Computer science does not include using a computer to do everyday things, such as browsing the internet, use of tools like word processing, spreadsheets, or presentation software, or using computers in the study and exploration of other subjects.

SCED codes for Computer Science classes

10011: Computer Science Principles	10019: AP Computer Science Principles
10012: Exploring Computer Science	10021: Computer Science Discoveries
10013: PLTW Computer Science Essentials	10153: Visual Basic (VB) Programming
10014: PLTW Computer Science A	10157: AP Computer Science A
10015: PLTW Computer Science Principles	10159: IB Computer Science

Data Science SCED Codes

Data science courses focus on learning and gathering meaning from datasets, using methods from mathematics, statistics, computing, and other fields. Students in data science courses learn data-related skills, such as data cleaning, merging, analysis, modelling, and visualization; exposure to a wide variety of data types; and may study societal, ethical, and civic implications of data usage and analysis. Many data science courses also include coverage of the "data cycle," akin to the scientific method: 1) formulating data-related questions; 2) gathering and collecting data; 3) exploring the data; 4) analyzing the data; and 5) interpreting and communicating the results, which then leads to additional inquiry.

SCED codes for Data Science classes

25052: Data Science	25053: Data Science Applications

How to Report Integrated Courses

The Office for Civil Rights (OCR) requires LEAs to classify integrated/hybrid math or science courses based on the majority of the content for the course. Example: An 'Integrated Math I' course that covers mostly Algebra I and some elements of Geometry can be listed as an Algebra I course. LEAs are encouraged to use their knowledge of the content taught in these courses/class to assist in making the best determination possible. There may be classes that simply cannot be mapped to the typical hierarchy of classes such as Algebra I, Geometry, Chemistry, Biology, in which case the guidance above would still apply.

For additional SCED information, see the SCED Finder here: National Forum on Education Statistics - SCED Guides

Reporting AP Courses

AP mathematics courses include Precalculus, Calculus (AB and BC), and Statistics.

SCED codes for AP mathematics classes

02114: AP Precalculus 02124: AP Calculus AB	02125: AP Calculus BC 02203: AP Statistics

AP science courses include Biology, Chemistry, Physics, and Environmental Science.

SCED codes for AP science classes

03056: AP Biology 03106: AP Chemistry 03156: AP Physics C 03163: AP Physics C: Electricity and Magnetism 03164: AP Physics C: Mechanics	03165 : AP Physics 1 03166 : AP Physics 2 03207 : AP Environmental Science 04256 : AP Psychology

AP computer science courses include Computer Science A and Computer Science Principles.

SCED codes for AP computer science classes

10157: AP Computer Science A	10019: AP Computer Science Principles

AP other subjects courses include all AP courses other than those in mathematics, science, or computer science. For example, AP world languages and cultures are included in "other subjects."

SCED codes for AP other subjects classes

01005: AP English Language and Composition	05153: AP Art History
01006: AP English Literature and Composition	05172: AP Drawing
01013: AP Seminar: English	05174: AP 2-D Art and Design
04004: AP Human Geography	05175: AP 3-D Art and Design
04056: AP European History	24064: AP Spanish Language and Culture
04067: AP World History: Modern	24065: AP Spanish Literature and Culture
04104: AP U.S. History	24114: AP French Language and Culture
04112: AP African American Studies	24164: AP Italian Language and Culture
04157: AP U.S. Government and Politics	24264: AP German Language and Culture
04158: AP Comparative Government and Politics	24355: AP Latin (Virgil, Catullus and Horace)
04159: AP Government	24414: AP Chinese Languages: Language and Culture
04203: AP Microeconomics	24464: AP Japanese Language and Culture
04204: AP Macroeconomics	25003: AP Seminar
04205: AP Economics	25004: AP Research
05114: AP Music Theory	

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