List of Advanced Courses2023 District and School Accountability Reporting:

Introduction

In 2018, the Massachusetts Department of Elementary and Secondary Education (DESE) began reporting accountability results under its new framework for district and school accountability and assistance, which was approved by the U.S. Department of Education as part of Massachusetts' Every Student Succeeds Act (ESSA) state plan. The accountability system includes indicators that provide additional information about school quality and student opportunity.

Massachusetts includes completion of advanced coursework as one of its accountability indicators. This indicator measures the percentage of all students enrolled in 11th and 12th grade that complete at least one advanced course, including but not limited to Advanced Placement (AP), International Baccalaureate (IB), Project Lead the Way (PLTW), dual enrollment for credit, Chapter 74-approved vocational/technical secondary cooperative education programs and articulation agreement courses, and other DESE-selected rigorous courses. Eligible courses extend beyond traditional AP courses and do not necessitate student participation in AP tests. This indicator is included in the accountability results for any district, school, or subgroup with at least 20 students enrolled in grades 11 and 12.

Background

Massachusetts' student-level course data indicate that there are varying levels of participation in and completion of advanced coursework across the state, and that within school districts there are equity gaps in participation across subgroups. In addition, Massachusetts PSAT, SAT, and course grade data indicate that additional students are prepared for advanced coursework but are not enrolling in those courses. By including a measure of advanced coursework completion, the accountability system can incentivize student participation in these types of courses.

Course List

The following courses are considered "advanced" for the purposes of accountability reporting. Course codes and names are aligned with DESE's Student Course Schedule (SCS) data collection.[1] Any student who completes at least one of these courses is included in the advanced coursework completion rate for the district, school, or group. Students completing multiple advanced courses are counted only once.

[1] See DESE's *Appendices A-I of EPIMS Data Handbook* for course descriptions: http://www.doe.mass.edu/infoservices/data/epims/.

SCS Course Code	Course Name
English Language and Literature	
01005	AP English Language and Composition
01006	AP English Literature and Composition
01011	IB Language A: Language and Literature—English
01007	IB Language A: Literature—English
01012	IB Literature and Performance
Mathematics	
02124	AP Calculus AB
02125	AP Calculus BC
02203	AP Statistics
02134	IB Further Mathematics
02131	IB Mathematical Studies
02132	IB Mathematics
02140	IB Mathematics: Analysis and Approaches
02139	IB Mathematics: Applications and Interpretation
02113	Abstract Algebra
02148	Advanced Quantitative Reasoning
02057	Algebra III
02073	Analytic Geometry
02121	Calculus
02123	Differential Calculus
02102	Discrete Mathematics
02109	Elementary Functions
02202	Inferential Probability and Statistics
02111	Linear Algebra
02112	Linear Programming
02104	Math Analysis
02108	Math Analysis/Analytic Geometry
02122	Multivariate Calculus
02141	Particular Topics in Analytic Mathematics
02126	Particular Topics in Calculus
02204	Particular Topics in Probability and Statistics
02110	Pre-Calculus
02201	Probability and Statistics
02207	Probability and Statistics—Independent Study
02209	Probability and Statistics—Other
02103	Trigonometry

SCS Course Code	Course Name
02106	Trigonometry/Algebra
02107	Trigonometry/Analytic Geometry
02105	Trigonometry/Math Analysis
Life and Physical Sciences	
03056	AP Biology
03106	AP Chemistry
03006	AP Environmental Science
03207	AP Environmental Science
03165	AP Physics 1
03166	AP Physics 2
03155	AP Physics B
03156	AP Physics C
03163	AP Physics C: Electricity and Magnetism
03164	AP Physics C: Mechanics
03057	IB Biology
03107	IB Chemistry
03206	IB Design Technology
03160	IB Physical Science
03157	IB Physics
03065	IB Sports, Exercise, and Health Science
03070	PLTW Biomedical Innovation
03067	PLTW Human Body Systems
03068	PLTW Medical Interventions
03066	PLTW Principles of Biomedical Science
03052	Biology—Advanced Studies
03097	Biology—Independent Study
03102	Chemistry—Advanced Studies
03147	Chemistry—Independent Study
03047	Earth Science—Independent Study
03059	Genetics
03997	Life and Physical Sciences—Independent Study
03060	Microbiology
03103	Organic Chemistry
03104	Physical Chemistry
03152	Physics—Advanced Studies
03197	Physics—Independent Study
Social Sciences and History	
04158	AP Comparative Government and Politics
04205	AP Economics

SCS Course Code	Course Name
04056	AP European History
04159	AP Government
04004	AP Human Geography
04204	AP Macroeconomics
04203	AP Microeconomics
04256	AP Psychology
04157	AP U.S. Government and Politics
04104	AP U.S. History
04057	AP World History
04206	IB Economics
04003	IB Geography
04169	IB Global Politics
04054	IB History
04066	IB Islamic History
04309	IB Philosophy
04257	IB Psychology
04253	IB Social and Cultural Anthropology
04304	IB Theory of Knowledge
Fine and Performing Arts	
05174	AP 2-D Art and Design
05175	AP 3-D Art and Design
05153	AP Art History
05172	AP Drawing
05115	AP Music Theory
05012	IB Dance
05194	IB Film
06150	IB Language A (non-English)—Italian
05116	IB Music
05062	IB Theatre
05173	IB Visual Arts
Foreign Language and Literature	
24414	AP Chinese Language and Culture
24114	AP French Language and Culture
24264	AP German Language and Culture
24164	AP Italian Language and Culture
06432	AP Japanese Language and Culture
24355	AP Latin (Vergil, Catullus, and Horace)
24064	AP Spanish Language and Culture
24065	AP Spanish Literature and Culture
06732	IB Classical Languages—Arabic

SCS Course Code	Course Name
24382	IB Classical Languages—Greek
06712	IB Classical Languages—Hebrew
24352	IB Classical Languages—Latin
06830	IB Language A (non-English)—American Indian Language
06730	IB Language A (non-English)—Arabic
06650	IB Language A (non-English)—Balto-Slavic Language
06270	IB Language A (non-English)—Celtic Language
06490	IB Language A (non-English)—East Asian Language
06530	IB Language A (non-English)—Filipino
06990	IB Language A (non-English)—Foreign Language
06210	IB Language A (non-English)—German
06250	IB Language A (non-English)—Germanic Language
06290	IB Language A (non-English)—Greek
06710	IB Language A (non-English)—Hebrew
06690	IB Language A (non-English)—Iranian/Persian Language
06450	IB Language A (non-English)—Korean
06780	IB Language A (non-English)—Non-Semitic African Language
06170	IB Language A (non-English)—Portuguese
06610	IB Language A (non-English)—Russian
06590	IB Language A (non-English)—Southeast Asian Language
06770	IB Language A (non-English)—Swahili
06670	IB Language A (non-English)—Turkic/Ural-Altaic Language
06510	IB Language A (non-English)—Vietnamese
24917	IB Language A: Language and Literature—American Indian Language
24767	IB Language A: Language and Literature—Arabic
24417	IB Language A: Language and Literature—Chinese
24617	IB Language A: Language and Literature—Filipino
24117	IB Language A: Language and Literature—French
24267	IB Language A: Language and Literature—German
24317	IB Language A: Language and Literature—Greek
24717	IB Language A: Language and Literature—Hebrew
24167	IB Language A: Language and Literature—Italian
24467	IB Language A: Language and Literature—Japanese
24517	IB Language A: Language and Literature—Korean
24217	IB Language A: Language and Literature—Portuguese
24667	IB Language A: Language and Literature—Russian
24067	IB Language A: Language and Literature—Spanish
24817	IB Language A: Language and Literature—Swahili
24567	IB Language A: Language and Literature—Vietnamese
24967	IB Language A: Language and Literature—(Other World Language)

SCS Course Code	Course Name
24912	IB Language A: Literature—American Indian Language
24762	IB Language A: Literature—Arabic
24412	IB Language A: Literature—Chinese
24612	IB Language A: Literature—Filipino
24112	IB Language A: Literature—French
24262	IB Language A: Literature—German
24312	IB Language A: Literature—Greek
24712	IB Language A: Literature—Hebrew
24162	IB Language A: Literature—Italian
24462	IB Language A: Literature—Japanese
24512	IB Language A: Literature—Korean
24212	IB Language A: Literature—Portuguese
24662	IB Language A: Literature—Russian
24062	IB Language A: Literature—Spanish
24812	IB Language A: Literature—Swahili
24562	IB Language A: Literature—Vietnamese
24962	IB Language A: Literature—World Language (Other Language)
24768	IB Language Ab Initio—Arabic
24418	IB Language Ab Initio—Chinese
24043	IB Language Ab Initio—English
24118	IB Language Ab Initio—French
24268	IB Language Ab Initio—German
24168	IB Language Ab Initio—Italian
24468	IB Language Ab Initio—Japanese
24668	IB Language Ab Initio—Russian
24068	IB Language Ab Initio—Spanish
24818	IB Language Ab Initio—Swahili
24968	IB Language Ab Initio—(Other World Language)
24913	IB Language B—American Indian Language
24763	IB Language B—Arabic
06651	IB Language B—Balto-Slavic Language
06271	IB Language B—Celtic Language
24413	IB Language B—Chinese
06491	IB Language B—East Asian Language
24042	IB Language B—English
06531	IB Language B—Filipino
06991	IB Language B—Foreign Language
24113	IB Language B—French
24263	IB Language B—German
06251	IB Language B—Germanic Language

SCS Course Code	Course Name
06291	IB Language B—Greek
24713	IB Language B—Hebrew
06691	IB Language B—Iranian/Persian Language
24163	IB Language B—Italian
24463	IB Language B—Japanese
24513	IB Language B—Korean
06781	IB Language B—Non-Semitic African Language
24213	IB Language B—Portuguese
24663	IB Language B—Russian
06591	IB Language B—Southeast Asian Language
24063	IB Language B—Spanish
06771	IB Language B—Swahili
06671	IB Language B—Turkic/Ural-Altaic Language
06511	IB Language B—Vietnamese
24963	IB Language B—World Language (Other Language)
Computer and Information Sciences	
10157	AP Computer Science A
10158	AP Computer Science A
10019	AP Computer Science Principles
12059	IB Business Management
10159	IB Computer Science
10007	IB Information Technology in a Global Society
10015	PLTW Computer Science and Software Engineering
10014	PLTW Computer Science Applications
10016	PLTW Cybersecurity
10013	PLTW Introduction to Computer Science
10017	PLTW Simulation and Modeling
10011	Computer Science Principles
Miscellaneous/Other	
22112	AP Research
22110	AP Seminar
22111	IB Approaches to Learning
22108	IB Creativity, Activity, Service
22109	IB Extended Essay
22113	IB Personal and Professional Skills
07017	IB World Religions
21019	PLTW Aerospace Engineering
21021	PLTW Civil Engineering and Architecture
21022	PLTW Computer Integrated Manufacturing
21023	PLTW Digital Electronics

SCS Course Code	Course Name
21025	PLTW Engineering Design and Development
21026	PLTW Engineering Essentials
21024	PLTW Environmental Sustainability
21017	PLTW Introduction to Engineering Design
21018	PLTW Principles of Engineering
Dual Enrollment for Credit	
Any course taken for postsecondary credit, reported in SCS09 as course level “04”	
Chapter 74-Approved Vocational/Technical Secondary Cooperative Education Program	
Enrollment in a Chapter 74-approved vocational technical secondary cooperative education program, reported in SIMS DOE035 as “02”	
Chapter 74-Approved Vocational/Technical Secondary Program Articulation Agreement	
Enrollment in a Chapter 74-approved vocational technical secondary course that meets statewide articulation agreement requirements, reported in SCS09 as course level “04”	