2023 District and School Accountability Reporting:

List of Advanced Courses

# 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)](http://www.doe.mass.edu/infoservices/data/scs/) data collection.[[1]](#footnote-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.

| **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 |
| 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 |
| 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 |
| 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) |
| 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 |
| 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 |
| 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](http://www.doe.mass.edu/infoservices/data/scs/SCS-DataHandbook.docx) 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](http://www.doe.mass.edu/ccte/cvte/), reported in [SIMS DOE035](http://www.doe.mass.edu/infoservices/data/sims/SIMS-DataHandbook.docx) 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](https://masscc.org/technical-high-schools-transfer-agreements/) requirements, reported in [SCS09](http://www.doe.mass.edu/infoservices/data/scs/SCS-DataHandbook.docx) as course level “04” |

1. See DESE’s *Appendices A-I of EPIMS Data Handbook* for course descriptions: <http://www.doe.mass.edu/infoservices/data/epims/>. [↑](#footnote-ref-1)