

IB Program Curricular Pathways

The full IB Program is a **two-year course of study** (junior and senior year); however, the Pre-IB program, for freshman and sophomores, is a curricular enhancement. Taking Pre-IB courses is of course encouraged, but not required.

Diploma students complete **one pathway in each of the six groups** (plus the additional requirements listed toward the end of this document). Certificate students complete **one pathway per certificate**.

GROUP 1: ENGLISH

English path

- PIB LA 9 (I20)
- PIB LA 10 (I21)
- IB English 11 (I80)
- IB English 12 (I81) leading to HL exam



GROUP 2: SECOND LANGUAGE

French or Spanish path

- PIB 2 (I49 or I45)
- PIB 3 (I50 or I46)
- IB 4 (I51 or I47)
- IB 5 (I71 or I73) leading to SL exam usually. HL exam also available with teacher recommendation.

Note: If you start lower than level 2, you will need to “make up” the level before your senior year. Consult with your language teacher on how to do this.

German path

- PIB 2 (I52)
- PIB 3 (I53)
- IB 4 (I67) leading to SL exam if IB 5 not available.
- IB 5 (I72) leading to SL exam. HL exam also available with teacher recommendation.

Latin path

- Latin 1 (F51)
- PIB 2 (I61)
- PIB 3 (I62)
- IB 4 (I63) leading to SL exam.

GROUP 3: SOCIAL SCIENCES

History path

- PIB Government/PIB Geography (I28/I26)
- PIB US History (I84)
- IB World History (I30) leading to History SL exam
- IB History of the Americas (I86) leading to History of the Americas HL exam

Note: You may take the History SL exam or the History of the Americas HL exam for credit, but not both.

Economics path

- IB Economics SL, taken junior or senior year (I105)

Philosophy path

- IB Philosophy SL, taken junior or senior year (I106)

Business path

- Business Foundations (B41)
- IB Business & Management leading to the SL exam (I27)

GROUP 4: SCIENCES

Biology path

- PIB Chemistry/Physics (I42)
- PIB Biology I (I40)
- IB Chemistry I* (I44)
- IB Biology II* (I43)
- IB Biochemistry *(I41) (1 semester) leading to the SL or HL exam

Note: * courses can be taken concurrently. Consult with the Science Department.

Chemistry path

- PIB Chemistry/Physics (I42)
- PIB Biology I (I40)
- IB Chemistry I (I44)
- IB Chemistry II*(I48) leading to the SL exam
- IB Chemistry 6 *(1 semester) leading to the HL exam
- Note: * courses can be taken concurrently. Consult with the Science Department.

Physics path

- PIB Chemistry/Physics (I42)
- PIB Biology I (I40)
- IB Physics I (I75)
- IB Physics II (I76) leading to the SL or HL exam

GROUP 5: MATHEMATICS

Math Studies path: more statistics

- PIB Honors Geometry or Geometry (I34 or M41)
- PIB Honors Algebra II or Algebra II (I36 or M51)
- IB Elementary Functions/IB Calculus I or Pre-Calculus 1/2 (I98/I88 or M61/M64)
- IB Math Studies (I95) leading to Math Studies SL exam

Math Methods path: more calculus

- PIB Honors Geometry (I34)
- PIB Honors Algebra II (I36)
- IB Elementary Functions/IB Calculus I (I98/I88)
- AP Calculus BC (M66) leading to Mathematics SL exam

Math HL path: most challenging

- PIB Honors Algebra II (I36)
- IB Elementary Functions/IB Calculus I (I98/I88)
- AP Calculus BC (M66)
- IB Math HL (I96) leading to Mathematics HL exam

Note: Consult Math Department for other possible sequences in these paths.

Watch out!!!! Boulder Valley School District requires that all high school graduates **also** earn credit in the following areas:

Practical arts: Computer science, business, consumer and family science, stage craft, video and film production, industrial technology. **Five credits required** for graduation.

Physical Education (PE): 15 credits required. Credits can be waived for sports up to a total of 10 credits in the following manner:

- 1) Two credits per in-school sport per year
- 2) One credit per out-of-school sport per year
- 3) Five credits must be earned as a freshman

Health: Five credits required.

No waivers for this requirement. PIB, Fit for Life (I87) is an excellent way to satisfy this requirement; it provides five health credits and five regular PE credits.

GROUP 6: ELECTIVES

Music path

- Music Theory 1 (N31)
- Independent study in Music leading to a variety of exams: Music Solo Performance SL or HL, Music Group Performance SL, or Music Composition SL or HL.

Note: Consult the Fine Arts Department on options.

Theatre Arts path

- Introduction to Theatre (L35) (Theatre 1) or Acting (L36) (Theatre 2)
- IB Theatre Arts (I79) leading to the Theatre Arts SL exam

Visual Arts path

- Foundations in art (A35)
- Portfolio Art (A80) (recommended)
- IB Art (I64) leading to Visual Arts SL or HL exam

Computer Science path

- Introduction to Java (D77)
- AP Computer Science Java (D78)
- IB Computer Science (Java) (I23) leading to Computer Science SL or HL exam

Or . . .

Do another Group 2 subject (World Language) *or*
Do another Group 3 subject (Social Sciences) *or*
Do another Group 4 subject (Science)

Diploma candidates have some added requirements. Please see the IB Handbook for further details.

1. IB Theory of Knowledge (I99)

This is a 10 credit course taken in both the 11th and 12th grade - half of the course is taken spring semester junior year, the remainder is taken fall semester senior year.

2. Extended Essay

Independent research – 4,000 words. Guidelines and procedures presented to juniors in during the first half of the ToK course; seniors submit final essays during the fall semester of ToK.

3. Creativity - Action - Service (CAS) - 150 documented hours.