



Class of 2022

4-year IB course matrix



IB Diploma (Full IB)	IB Career-related Requirements (IBCP)	IB Course Students (Partial IB)																														
<p>1) Complete 6 IB courses and exams (check all that apply)</p> <ul style="list-style-type: none"> <input type="checkbox"/> IB Language & Literature HL <input type="checkbox"/> IB French or Spanish B SL or HL or ab initio – or pass an IB exam in IB French/Spanish SL in 11th grade <input type="checkbox"/> IB History of the Americas HL <input type="checkbox"/> IB Biology SL, IB Chemistry SL, IB Physics SL, <u>or</u> IB Environmental Systems SL <input type="checkbox"/> Honors Alg II (Jrs only) + IB Math Applications, or IB Math Analysis SL Years 1 & 2, or IB Math HL <input type="checkbox"/> One of these IB Sixth Subject Electives <ul style="list-style-type: none"> ○ IB Film HL ○ IB Music SL or HL ○ IB Psychology HL ○ IB Theatre HL ○ A <i>second</i> IB Science SL in addition to the one above ○ A <i>second</i> IB Language B in addition to the one above <p>2) At least THREE of the above are HL courses, the other 3 are SL courses (4 HLs are allowed with 2 SLs)</p> <p>3) IB Theory of Knowledge (Fall for Srs, Spring for Jrs)</p> <p>4) Creative, Action, and Service (CAS) activities</p> <p>5) Extended Essay through the TOK class (Juniors begin work on the Extended Essay in the spring)</p>	<p>1) Career Studies in BOTH 11th and 12th grade. Even if you complete a pathway in 11th grade, you must have a career-related study on your schedule/transcript for senior year. This can be a related CTAE course or an internship in the pathway.</p> <p>2) At least TWO IB Diploma courses and the associated IB exam. One of these should be IB English (Literature or Language & Literature)</p> <p>Options include:</p> <table border="0"> <tr> <td>• IB Language & Literature</td> <td>• IB Math Applications</td> </tr> <tr> <td>• IB History of the Americas</td> <td>• IB Math Analysis</td> </tr> <tr> <td>• IB Psychology</td> <td>• IB Math Analysis HL</td> </tr> <tr> <td>• IB Biology</td> <td>• IB Film</td> </tr> <tr> <td>• IB Chemistry</td> <td>• IB Music</td> </tr> <tr> <td>• IB Environmental Systems</td> <td>• IB Theatre</td> </tr> <tr> <td>• IB Physics</td> <td></td> </tr> </table> <p>3) IB Personal & Professional Skills class (Fall for Srs, Spring for Jrs)</p> <p>4) Completing the IB Reflective Project under Dr. Epstein’s direction in PPS</p> <p>5) Taking a 2nd world language (in addition to English) This can be MHS or online class. It could (but doesn’t have to) be an IB French or IB Spanish, but can’t count as your 2nd IB course.</p> <p>6) In an IBCP advisement keeping track of your Service Learning and Language Portfolio on ManageBac.</p>	• IB Language & Literature	• IB Math Applications	• IB History of the Americas	• IB Math Analysis	• IB Psychology	• IB Math Analysis HL	• IB Biology	• IB Film	• IB Chemistry	• IB Music	• IB Environmental Systems	• IB Theatre	• IB Physics		<p>1) Select IB courses ala carte , based on interests and teacher recommendations.</p> <p>2) Do not complete IB Core requirements (TOK, PPS, CAS, etc.)</p> <p>3) Select from these courses. Check the MHS course catalog for course details, including prerequisites</p> <table border="0"> <tr> <td>• IB Language & Literature</td> <td>• IB Physics</td> </tr> <tr> <td>• IB History of the Americas</td> <td>• IB Math Applications</td> </tr> <tr> <td>• IB French</td> <td>• IB Math Analysis</td> </tr> <tr> <td>• IB Spanish</td> <td>• IB Math Analysis HL</td> </tr> <tr> <td>• IB Psychology*</td> <td>• IB Film*</td> </tr> <tr> <td>• IB Biology</td> <td>• IB Music</td> </tr> <tr> <td>• IB Chemistry</td> <td>• IB Theatre*</td> </tr> <tr> <td>• IB Environmental Systems</td> <td></td> </tr> </table> <p>4) *Course students in courses that have IB- assessed group components (IB Film, IB Psychology, IB Theatre) must commit to taking the IB exam in that subject. Any applicable exam fees will apply.</p> <p>5) Students will only receive confirmation of their IB Course status from IB if they take the IB exam in their subjects. IB exam scores determine college course credit.</p>	• IB Language & Literature	• IB Physics	• IB History of the Americas	• IB Math Applications	• IB French	• IB Math Analysis	• IB Spanish	• IB Math Analysis HL	• IB Psychology*	• IB Film*	• IB Biology	• IB Music	• IB Chemistry	• IB Theatre*	• IB Environmental Systems	
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IB Subject	9 th	10 th	11 th	12 th
Class of 2022	Middle Years Certificate (Choose Honors courses for DP/CP)		IB Diploma/ IBCP Course choices	
English	Hnrs 9 th Literature 9 th Literature	Hnrs World Lit	IB Language & Literature I	IB Language & Literature II*
Language B (Honors & IB)	French or Spanish Levels I, Hnrs II, IB SL I	French or Spanish Hnrs II, IB SL I, AP	IB French SL I or SL II* IB Spanish SL I or SL II*	IB French SL II* or HL* IB Spanish SL II* or HL*
Social Studies	Honors Economics & Honors Citizenship	Hnrs or AP World History	IB History of Americas I	IB History of America II*
Science	Hnrs Physics Environmental Science	Honors Biology & Honors Chemistry OR Biology only ->	IB Biology I IB Chemistry I IB Physics I 4x4 Physics + IB Environmental I	IB Biology II* IB Chemistry II* IB Physics II* IB Environmental II*
Math	Algebra I or Hnrs Alg I Geometry or Hnr Geom Accel Alg/Geom Accel Geom/Alg II	Geometry or Hn Geom Hnrs Algebra II Accel Geom/Alg II IB Math Analysis Y1	Hnrs Algebra II IB Math Applications* IB Math Analysis Y1 IB Math Analysis Y2*	IB Math Applications* AP Statistics IB Math Analysis Y2* IB Math Analysis HL*
Arts/ IB 6 th Subject	Fund/Adv Drama I, II Band/Choir AVTF I or Vis Arts Dance	Adv Drama II, III Band/Choir AVTF I or II or Vis Arts Dance	IB Theatre I (prereq 2 sem Drama) AP MusThry +Band/Choir IB Film I (prereq AVTF I) IB Psych I (coreq IB Lang/Lit 1)	IB Theatre II* IB Music* +Band/Choir IB Film II* IB Psychology II*
MYP Design or Career Pathway	Tech elective Pathway	Tech elective Pathway	Career Pathway only if IBCP	Career Pathway only if IBCP
IB Requirement	Personal Project	Personal Project (completion)	TOK (DP) or Pers & Prof Skills (CP) (Spring only)	TOK (DP) or Prof Skills (CP) (Fall only) Pers &
PE & Health	PE & Health (1 sem each) required for graduation (waived under certain circumstances)			

* Take IB exam at end of course

IB Diploma 6th Subject Elective Choices

IB 6 th Subject	9 th	10 th	11 th	12 th
IB Film	AVTF I	AVTF I or II	IB Film I	IB Film II
IB Psychology			IB Psychology I	IB Psychology II
2 nd Science			IB Biology I IB Chemistry I IB Environ Syst I IB Physics I	IB Biology II IB Chemistry II IB Environ Sys II IB Physics II
3 rd Language	Language I	Language II	Language III	Language IV
IB Theatre	2 semesters of any Theatre class		IB Theatre I	IB Theatre II
IB Music	Band or Choir	Band or Choir	AP Music Theory + Performance Class	IB World Music + Performance Class

IBCP Career Pathways

Pathway	Year 1 Grade 9 or 10	Year 2 Grade 10 or 11	Year 3 Grade 11 or 12	Year 4 as needed
AFJROTC	AFJROTC 1	AFJROTC 2	AFJROTC 3	AFJROTC 4
Architecture	Intro to Drafting & Design	Architect Drawing & Design I	Architect Draw & Design II	Architecture Internship
Audio/Visual/Tech/Film	AVTF I	AVTF II	AVTF III or Broadcast Vid Prod	AVTF III, BVP, or Internship
Computer Science	Into to Digital Technology	Computer Sci Principles	AP Computer Science	Comp Sci Internship
Construction	Occupational Safety	Intro to Construction	Carpentry/Plumbing/Electric/Masonry	Construction Internship
Culinary Arts	Intro to Culinary Arts	Culinary Arts I	Culinary Arts II	Culinary Internship
Cyber Security	Intro to Digital Technology	AP Computer Science	Cyber Security	Cyber Security Internship
Early Child Education	Early Childhood Ed I	Early Childhood Ed II	Early Childhood Ed III	ECE Internship
Engineering	Intro to Drafting & Design	Survey of Engineering	3-D Modelling & Design	Engineering Internship
Entrepreneurship	Intro to Business & Tech	Legal Environment of Business	Entrepreneurship	Entrepreneur Internship
Game Design	Intro to Digital Technology	Comp Sci Principles or AP Comp Sci	Animation & Simulation	Game Design Internship
Graphic Design or Communications	Graphic Intro to Graphics & Design	Graphic Design & Production	Advanced Graphic Design or Graphic Output Processes	Graphics Internship
Pre- Architecture	Pre-Architecture 1	Pre-Architect II	Pre-Architecture III	Pre- Architect Internship
Nutrition	Foods, Nutrition, Wellness	Food for Life	Food Science	Nutrition Internship
Marketing	Marketing Principles	Promotion & Prof Sales	Marketing Communications	Marketing Internship
<u>Healthcare Science</u> <ul style="list-style-type: none"> • Biotechnology • EMR • Sports Medicine • CNA 	Intro to Healthcare Science	Essentials of Biotechnology Essentials of Healthcare Essentials of Healthcare Essentials of Healthcare	Applications of Biotechnology Emergency Medical Response Sports Medicine	Biotechnology Intern EMR Intern Sports Medicine Intern CNA- Diet & Nutrition - Medical Terminology - CNA-Nurse Aid Fundmntls