

LAMAR

ACADEMIC PATHWAYS



Mirabeau B. Lamar High School
An International Baccalaureate World School

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FIND YOUR PATH

AT Lamar High School

An International Baccalaureate World School

With so many options at Lamar to choose from, it takes some planning to get to where you want to be when you graduate. This book can help you, through grades 9 – 12, to pick the classes you need to meet your academic goals and participate in the activities you enjoy.

With the sample plans in this book, you can follow the one that fits you exactly, or borrow the concept from one and adjust it to suit your interests, no matter what you want to accomplish. Lamar offers strong college preparation in all classes with the power and support of the International Baccalaureate behind everything we do.

Whether you are a magnet student, athlete, or artist, you can build your program at Lamar with the plans in this book. Regardless of what you choose, one thing is certain: everyone at Lamar is an IB student. So what is IB and what can it do for you?

The International Baccalaureate aims to develop inquiring, knowledgeable, and caring young people who help to create a better and more peaceful world through intercultural understanding and respect.

To this end the organization works with schools, governments, and international organizations to develop challenging programs of international education and rigorous assessment.

These programs encourage students across the world to become active, compassionate and lifelong learners who understand that other people, with their differences, can also be right.

The IB Middle Years Program, provides a framework of academic challenge that encourages students to embrace and understand the connections between traditional subjects and the real world, and to become critical and reflective thinkers.

The curriculum

The IB Middle Years program consists of eight subject groups integrated through five Areas of Interaction that provide a framework for learning within and across the subjects. Students are required to study English, a second language, humanities, sciences, mathematics, arts, physical education, and technology. In the sophomore year, students engage in a personal project, which allows them to demonstrate the understandings and skills they have developed throughout the program. In junior and senior years, anyone can pursue the IB diploma; many of the plans identify diploma paths. Regardless of what pathway you choose, you will receive a world class education at Lamar which will prepare you for great things in your future.

<http://www.ibo.org/mission/>; <http://www.ibo.org/myp/>

GRADUATION PLAN

For the DISTINGUISHED LEVEL OF ACHIEVEMENT

Meets the Multidisciplinary Endorsement

	9th grade	10th grade	11th grade	12th grade
1	English 1	English 2	English 3	English 4
2	Language Acquisition 1	Language Acquisition 2	Elective	Elective
3	World Geography	World History	U.S. History	Government Economics
4	Biology	Chemistry	Physics	4 th Science
5	Algebra 1	Algebra 2	Geometry	Precalculus or Advanced Quantative Reasoning
6	Principles of Business, Marketing and Finance or Endorsement 1	Business Information Management, Computer Science PDP or Endorsement 2	Elective or Endorsement 3	Elective or Endorsement 4
7	P.E. or equivalent	Elective* Health online before graduation	Elective	Elective
8	Elective or Fine Art	Fine Art or Elective	Elective	Elective

Prescribed Graduation Plan Requirements

4 credits of English

4 credits of Math

4 credits of Science

4 credits of Social Studies

2 credits of a Language other than English

½ credit of Health

1 credit of P.E. or an equivalent

1 credit of a Fine Art: Visual Art, Band, Choir, Orchestra, Music Appreciation, Dance, Theatre, Piano

5 1/2 credits of Electives

Endorsements and Programs of Study at Lamar High School

Endorsements consist of a related series of courses that are grouped together by interest or skill set. They provide students with in-depth knowledge of a subject area. At Lamar, you have numerous options from which to choose. Make your course selections within the Graduation Plan to follow the endorsement area of your choice.

Multidisciplinary

Foundation Graduation Requirements **PLUS:**

Algebra 2 and an Advanced Math (AQR, Precalculus, IB Math Studies, IB Math SL or HL) **AND**

Advanced Science (IB Biology, Chemistry or Physics SL and HL, IB Environmental Science SL, Aquatic Science, Anatomy) **AND**

At least four credits in AP, IB or Dual Credit

Foundation Graduation Requirements **PLUS:**

Algebra 2 and an Advanced Math (AQR, Precalculus, IB Math Studies, IB Math SL or HL) **AND**

Advanced Science (IB Biology, Chemistry or Physics SL and HL, IB Environmental Science SL, Aquatic Science, Anatomy) **AND**

Four advanced courses from any one endorsement area or from multiple endorsement areas

Foundation Graduation Requirements **PLUS:**

Algebra 2 and an Advanced Math (AQR, Precalculus, IB Math Studies, IB Math SL or HL) **AND**

Advanced Science (IB Biology, Chemistry or Physics SL and HL, IB Environmental Science SL, Aquatic Science, Anatomy) **AND**

English 4, Chemistry and/or Physics and one credit each in Math and Social Studies

Science, Technology, Engineering and Math (STEM)

Foundation Graduation Requirements **PLUS:**

Algebra 2 and an Advanced Math (AQR, Precalculus, IB Math Studies, IB Math SL or HL) **AND**

Chemistry and Physics **AND**

Coherent sequence of CTE courses for 4+ credits with at least 2 courses in the same career cluster including at least 1 advanced CTE course (Agriculture/Animal Science or Culinary Arts)

Foundation Graduation Requirements **PLUS:**

Algebra 2 and an Advanced Math (AQR, Precalculus, IB Math Studies, IB Math SL or HL) **AND**

Chemistry, Physics and 2 additional advanced science classes (IB Biology, Chemistry or Physics SL and HL, IB Environmental Science SL, Aquatic Science, Anatomy)

Foundation Graduation Requirements **PLUS:**

Algebra 2 and 2 additional advanced math classes (AQR, Precalculus, IB Math Studies, IB Math SL, HL)

Foundation Graduation Requirements **PLUS:**

Algebra 2 and an Advanced Math (AQR, Precalculus, IB Math Studies, IB Math SL or HL) **AND**

Chemistry and Physics **AND**

Coherent sequence of 3 additional credits from no more than 2 categories/disciplines in STEM endorsement paths (AQR, Precalculus, IB Math Studies, IB Math SL or HL, IB Biology, Chemistry or Physics SL and HL, IB Environmental Science SL, Aquatic Science, Anatomy)

Business and Industry

Foundation Graduation Requirements **PLUS:**

Algebra 2 and an Advanced Math (AQR, Precalculus, IB Math Studies, IB Math SL or HL) **AND**
Advanced Science (IB Biology, Chemistry or Physics SL and HL, IB Environmental Science SL, Aquatic
Science, Anatomy) **AND**

Coherent sequence of CTE courses for 4+ credits with at least 2 courses in the same career cluster including
at least 1 advanced CTE course that is third or higher in a sequence (Business, Agriculture, Culinary Arts,
Engineering, and Architecture and Construction)

Foundation Graduation Requirements **PLUS:**

Algebra 2 and an Advanced Math (AQR, Precalculus, IB Math Studies, IB Math SL or HL) **AND**
Advanced Science (IB Biology, Chemistry or Physics SL and HL, IB Environmental Science SL, Aquatic
Science, Anatomy) **AND**

3 levels/years in one of the following areas: Broadcast Journalism, Newspaper, or Yearbook

Public Service

Foundation Graduation Requirements **PLUS:**

Algebra 2 and an Advanced Math (AQR, Precalculus, IB Math Studies, IB Math SL or HL) **AND**
Advanced Science (IB Biology, Chemistry or Physics SL and HL, IB Environmental Science SL, Aquatic
Science, Anatomy) **AND**

Four courses in JROTC

Arts & Humanities

Foundation Graduation Requirements **PLUS:**

Algebra 2 and an Advanced Math (AQR, Precalculus, IB Math Studies, IB Math SL or HL) **AND**
Two additional Social Studies or Economics courses to total 5 (World Geography or World History;
AP Government B; IB Economics SL or HL, World Religions SL, History of the Americas HL, Dual Credit
Psychology)

Foundation Graduation Requirements **PLUS:**

Algebra 2 and an Advanced Math (AQR, Precalculus, IB Math Studies, IB Math SL or HL) **AND**
Four levels/years in the same foreign language (Spanish, French, Chinese, or Italian)

Foundation Graduation Requirements **PLUS:**

Algebra 2 and an Advanced Math (AQR, Precalculus, IB Math Studies, IB Math SL or HL) **AND**
Coherent sequence of 4 Fine Arts courses from one or two categories. Only one of the four can include the
introductory/year 1 course. (Theatre, Dance, Art, Choir, Orchestra, Band)

Foundation Graduation Requirements **PLUS:**

Algebra 2 and an Advanced Math (AQR, Precalculus, IB Math Studies, IB Math SL or HL) **AND**
Four English credits to include English 4, IB English SL or HL, OR Independent Study in English/Debate

GRADUATION PLAN

For the DISTINGUISHED LEVEL OF ACHIEVEMENT

Public Service Endorsement

	9th grade	10th grade	11th grade	12th grade
1	English 1	English 2	English 3	English 4
2	Language Acquisition 1	Language Acquisition 2	Elective	Elective
3	World Geography	World History	U.S. History	Government Economics
4	Biology	Chemistry	Physics	4 th Science
5	Algebra 1	Algebra 2	Geometry	Precalculus or Advanced Quantative Reasoning
6	Principles of Business, Marketing and Finance	Business Information Management, Computer Science PDP	Elective	Elective
7	NJROTC 1	NJROTC 2	NJROTC 3	NJROTC 4
8	Elective or Fine Art	Fine Art or Elective	Elective* Health online before Graduation	Elective

The Public Service Endorsement at Lamar includes completion of four credits of NJROTC. Courses and levels may be adjusted to additionally complete the IB Career-Related Program or Magnet Business Administration Program, or earn the IB diploma.

The IB Diploma Program

The IB Diploma Program is designed as an academically challenging and balanced program of education with assessments that prepare students for success at university and life beyond. The program is taught in 11th and 12th grade and has gained recognition and respect from the world's leading universities.

The curriculum

IB Diploma Program students at Lamar study three courses at higher level (HL) and two years of instruction and three at standard level (SL) or 1 year of instruction. Students must choose one subject from each of groups 1 to 5, thus ensuring breadth of experience in languages, social studies, the experimental sciences and mathematics. The sixth subject may be an arts subject chosen from group 6, or the student may choose another subject from groups 1 to 5.

In addition the program has three core requirements that are included to broaden the educational experience and challenge students to apply their knowledge and understanding.

The extended essay is a requirement for students to engage in independent research through an in-depth study of a question relating to their studies.

Theory of knowledge is a course designed to encourage each student to reflect on the nature of knowledge by critically examining different ways of knowing and different kinds of knowledge.

Creativity, Action, Service requires that students actively learn from the experience of doing real tasks beyond the classroom.

Assessment

Students take written examinations at the end of the program, which are marked by external IB examiners. Students also complete assessment tasks in the school, which are either initially marked by teachers and then moderated by external moderators or sent directly to external examiners.

The diploma is awarded to students who gain at least 24 points, subject to certain minimum levels of performance across the whole program and to satisfactory participation in the creativity, action, service (CAS) requirement.

What are the benefits of the IB Diploma?

Public universities in Texas, Colorado, California and Florida give a minimum of 24 hours of credit to IB diploma recipients attending state colleges. Lamar graduates have received as many as 45 hours of credit from their scores on the IB diploma.

Life in the 21st century, in an interconnected, globalized world, requires critical-thinking skills and a sense of international-mindedness - something that International Baccalaureate (IB) Diploma Program students come to know and understand.

<http://www.ibo.org/diploma/>

IB DIPLOMA SAMPLE PATHWAY

Meets STEM or Multidisciplinary Endorsement

	9 th grade	10 th grade	11 th grade	12 th grade
1	English 1	English 2	IBDP English 3	IBDP English 4 HL
2	Language Acquisition	Language Acquisition	Language Acquisition 3 PDP or 4 SL	IBDP Language Acquisition 4 SL or 5 HL
3	World Geography	World History	PDP U.S. History	IBDP Economics, World Religions SL or History of the Americas HL
4	Biology	Chemistry	Physics	IBDP Science SL: Biology, Chemistry, Physics or Environmental Science
5	Algebra 1 PDP recommended	Algebra 2	Geometry or Precalculus*	IBDP Math Studies or IBDP Math SL
		PDP Geometry or Precalculus in Summer School*		
6	P.E. or equivalent	Elective/ Health online or in summer**	IBDP Group 6 PDP, SL or HL or Elective	Elective or IBDP Group 6 SL or HL
7	PBM	BIM, or Computer Science PDP	Elective	Elective
8	Fine Art or Elective	Elective or Fine Art	Government/ TOK	TOK/Economics

* The math sequence is: Algebra 1, Algebra 2, Geometry and 4th math/Precalculus; all are required to graduate. An IBDP math, (SL Math or Math Studies), is needed for the diploma. PDP Geometry may be taken in the summer after Algebra 1 or 2 and/or PDP Precalculus may be taken in the summer after completion of Algebra 2 and Geometry.

** Health is required before graduation and is available online or in summer school

IB DIPLOMA SAMPLE PATHWAY

with Algebra 1 credit from Middle School

STEM or Multidisciplinary Endorsement

	9 th grade	10 th grade	11 th grade	12 th grade
1	English 1	English 2	IBDP English 3	IBDP English 4 HL
2	Language Acquisition	Language Acquisition	Language Acquisition 3 PDP or 4 SL	IBDP Language Acquisition 4 SL or 5 HL
3	World Geography	World History	PDP U.S. History	IBDP Economics, World Religions SL or History of the Americas HL
4	Biology	Chemistry	Physics	IBDP Science SL: Biology, Chemistry, Physics or Environmental Science
5	Algebra 1 in MS	Geometry	Precalculus	IBDP Math Studies or IBDP Math SL
	Algebra 2 PDP recommended	PDP Geometry or Precalculus in Summer		IBDP Math HL
5			IBDP Math SL	
	6	P.E. or equivalent	Elective/ Health online or in summer	IBDP Group 6 SL or Elective
7	PBM or CTE Endorsement course 1	BIM or Computer Science PDP or CTE Endorsement course 2	Government/TOK	TOK/ Economics
8	Elective or Fine Art	Fine Art or Elective	Elective	Elective

IBDP MATH STUDIES SL is a combination of algebra; sets, logic and probability; functions; geometry and trigonometry; statistics; introductory differential equations; and financial mathematics.

IBDP MATH SL combines calculus, functions and equations, matrices and vectors, statistics and probability, and circular functions in trigonometry.

IBDP MATH HL combines a continuation of the topics in Math SL and one of these topics: sets, relations and groups, series and differential equations, statistics and probability or discrete mathematics.

IB DIPLOMA SAMPLE PATHWAY

Computer Science Focus

STEM or Multidisciplinary Endorsement

	9th grade	10th grade	11th grade	12th grade
1	English 1	English 2	IBDP English 3	IBDP English 4 HL
2	Language Acquisition	Language Acquisition	Language Acquisition 3 PDP or 4 SL	IBDP Language Acquisition 4 SL or 5 HL
3	World Geography	World History	PDP U.S. History	IBDP Economics, World Religions SL or History of the Americas HL
4	Biology	Chemistry	Physics	IBDP Science SL: Biology, Chemistry, Physics or Environmental Science
5	Algebra 1 in MS Algebra 2 PDP recommended	Geometry	Precalculus	IBDP Math Studies or IBDP Math SL
		PDP Geometry or Precalculus in Summer	IBDP Math SL	IBDP Math HL
6	P.E. or equivalent	Elective/ Health online or in summer	Government/TOK	TOK/ Economics
7	Principles of Business, Marketing and Finance	Computer Science PDP	IBDP Computer Science SL	IBDP Computer Science HL
8	Fine Art	Elective	Elective	Elective

IB DIPLOMA SAMPLE PATHWAY

Fine Arts Focus

STEM or Arts & Humanities Endorsement

	9 th grade	10 th grade	11 th grade	12 th grade
1	English 1	English 2	IBDP English 3	IBDP English 4 HL
2	Language Acquisition	Language Acquisition	Language Acquisition 3 PDP or 4 SL	IBDP Language Acquisition 4 SL or 5 HL
3	World Geography	World History	PDP U.S. History	IBDP Economics, World Religions SL or History of the Americas HL
4	Biology	Chemistry	Physics	IBDP Science SL: Biology, Chemistry, Physics or Environmental Science
5	Algebra 1 PDP recommended	Algebra 2	Geometry or Precalculus*	IBDP Math Studies or IBDP Math SL
		PDP Geometry or Precalculus in Summer School*		
6	Art, Theatre, or Dance	PDP Art, Theatre or Dance	IBDP Art, Theatre, or Dance SL	IBDP Art, Theatre, or Dance HL
7	PBM	BIM	Government/ TOK	TOK/Economics
8	P.E. or equivalent	Elective/ Health online or in summer	Elective	Elective

IB DIPLOMA SAMPLE PATHWAY

Single Period Activity, not a Fine Art

STEM, Multidisciplinary, Business & Industry or Arts & Humanities Endorsement

	9 th grade	10 th grade	11 th grade	12 th grade
1	English 1	English 2	IBDP English 3	IBDP English 4 HL
2	Language Acquisition	Language Acquisition	Language Acquisition 3 PDP or 4 SL	IBDP Language Acquisition 4 SL or 5 HL
3	World Geography	World History	PDP U.S. History	IBDP Economics, World Religions SL or History of the Americas HL
4	Biology	Chemistry	Physics	IBDP Science SL: Biology, Chemistry, Physics or Environmental Science
5	Algebra 1 PDP recommended	Algebra 2	Geometry or Precalculus*	IBDP Math Studies or IBDP Math SL
		PDP Geometry or Precalculus in Summer School*		
6	P.E. or equivalent	Fine Art	IBDP Group 6 SL	IBDP Group 6 HL, Elective, or CTE transfer course
7	PBM	BIM or Computer Science	Government/ TOK	TOK/Economics
8	Activity: Debate, Journalism, Agriculture, Horticulture, Architecture, Engineering	Activity: Debate, Journalism, Agriculture, Horticulture, Architecture, Engineering	Activity: Debate, Journalism, Agriculture, Horticulture, Architecture, Engineering	Activity: Debate, Journalism, Agriculture, Horticulture, Architecture, Engineering

Health required online or in summer school

IB DIPLOMA SAMPLE PATHWAY

Single Period of Athletics

STEM or Multidisciplinary Endorsement

	9 th grade	10 th grade	11 th grade	12 th grade
1	English 1	English 2	IBDP English 3	IBDP English 4 HL
2	Language Acquisition 1	Language Acquisition 2	Language Acquisition 3 PDP	IBDP Language Acquisition 4 SL
3	World Geography	World History	PDP U.S. History	IBDP History of the Americas HL
4	Biology	Chemistry	Physics	IBDP Science SL: Biology, Chemistry, Physics or Environmental Science
5	Algebra 1 PDP Recommended	Algebra 2 PDP Geometry or Precalculus in Summer School*	Geometry or Precalculus*	IBDP Math Studies or IBDP Math SL
6	Principles of Business, Marketing and Finance	BIM, Computer Science PDP	Group 6: IBSL	Group 6: IBHL
7	Fine Art	Elective* Health online before Graduation	Government/ TOK	TOK/Economics
8	Athletics	Athletics	Athletics	Athletics

IB DIPLOMA SAMPLE PATHWAY

Two periods of Athletics

STEM or Multidisciplinary Endorsement

	9 th grade	10 th grade	11 th grade	12 th grade
1	English 1	English 2	IBDP English 3	IBDP English 4 HL
2	Language 1 In middle school Language Acquisition 2	Language Acquisition 2 or 3 PDP	Language Acquisition 3 or 4 SL	IBDP Language Acquisition 4 SL or 5 HL
3	World Geography	World History	PDP U.S. History	IBDP History of the Americas HL
4	Biology	Chemistry	Physics	IBDP Science SL: Biology, Chemistry, Physics or Environmental Science
5	Algebra 1 PDP recommended	Algebra 2 PDP recommended	Geometry or Precalculus PDP recommended	IBDP Math Studies or IBDP Math SL
6	PBM	Fine Art	IBDP Group 6 SL or Study Lab	IBDP Group 6 SL or HL or Study Lab
7	Athletics	Athletics	Government/ TOK	TOK/Economics
8	Athletics/Study Lab	Athletics/Study Lab	Athletics	Athletics

Summer School or online: Health, Government and/or economics in summer or online can make space for additional semesters of Athletics/Study Lab

LAMAR BUSINESS ADMINISTRATION MAGNET PROGRAM

Sample Pathway for earning the IB Diploma STEM or Multidisciplinary Endorsement

	9 th grade	10 th grade	11 th grade	12 th grade
1	English 1PDP	English 2 PDP	IBDP English 3	IBDP English 4 HL
2	Language Acquisition PDP	Language Acquisition PDP	Language Acquisition 3 PDP or 4 SL	IBDP Language Acquisition 4 SL or 5 HL
3	AP World Geography	AP World History	PDP U.S. History	*IBDP Economics, World Religions SL or History of the Americas HL
4	Biology PDP	Chemistry PDP	Physics PDP	IBDP Science SL: Biology, Chemistry, Physics or Environmental Science
5	Algebra 1 PDP	Algebra 2 PDP	PDP Geometry or Precalculus	IBDP Math Studies or IBDP Math SL
		PDP Geometry or Precalculus in Summer School		
6	Principles of Business, Marketing and Finance	BIM or Computer Science PDP	IB Business, Economics or Computer Science SL*	IB Business, Economics or Computer Science HL
7	P.E. or equivalent	Elective/ Health online or in summer	Government/TOK	TOK/Economics
8	Fine Art or Elective	Elective or Fine Art	Elective	Elective

LAMAR BUSINESS ADMINISTRATION MAGNET PROGRAM

Sample IB Diploma Pathway for Athletes

STEM or Multidisciplinary Endorsement

	9 th grade	10 th grade	11 th grade	12 th grade
1	English 1PDP	English 2 PDP	IBDP English 3	IBDP English 4 HL
2	Language Acquisition 1/PDP 2	Language Acquisition PDP 2/3	Language Acquisition 3 PDP or 4 SL	IBDP Language Acquisition 4 SL or 5 HL
3	AP World Geography	AP World History	PDP U.S. History	*IBDP Economics, World Religions SL or History of the Americas HL
4	Biology PDP	Chemistry PDP	Physics PDP	IBDP Science SL: Biology, Chemistry, Physics or Environmental Science
5	Algebra 1 PDP Algebra 2 PDP with Alg. 1 credit in MS	Algebra 2 PDP or Geometry	PDP Geometry or Precalculus	IBDP Math Studies IBDP Math SL or IB Math HL
		PDP Geometry or Precalculus in Summer School		
6	Principles of Business, Marketing and Finance	BIM or Computer Science PDP	IBDP Business, Computer Science or Economics SL*	IBDP Business, Computer Science or Economics HL
7	Athletics	Athletics	Government/TOK	TOK/Economics
8	Fine Art or Elective	Elective or Fine Art Health required online or in Summer School	Athletics	Athletics

* IBDP Economics SL meets the requirements for graduation, and the IB diploma.

IBDP Business meets diploma requirements for group 3 or group 6.

. Fine art, Government and/or economics in summer or online can make space for additional semesters of Athletics/Study Lab

LAMAR BUSINESS MAGNET ADMINISTRATION PROGRAM

Sample IB Diploma Pathway with a Fine Arts Focus

STEM or Arts & Humanities Endorsement

	9 th grade	10 th grade	11 th grade	12 th grade
1	English 1PDP	English 2 PDP	IBDP English 3	IBDP English 4 HL
2	Language Acquisition 1/PDP 2	Language Acquisition PDP 2/3	Language Acquisition 3 PDP or 4 SL	IBDP Language Acquisition 4 SL or 5 HL
3	AP World Geography	AP World History	PDP U.S. History	*IBDP Economics, World Religions SL or History of the Americas HL
4	Biology PDP	Chemistry PDP	Physics PDP	IBDP Science SL: Biology, Chemistry, Physics or Environmental Science
5	Algebra 1 PDP	Algebra 2 PDP	PDP Geometry or Precalculus*	IBDP Math Studies or IBDP Math SL
		PDP Geometry or Precalculus in Summer School*		
6	Principles of Business, Marketing and Finance	BIM or Computer Science PDP	IBDP Business or Economics SL*	IBDP Business or Economics HL
7	PE or equivalent	Elective* Health online before Graduation	Government/TOK	TOK/Economics
8	Art, Theatre, or Dance	PDP Art, Theatre or Dance	IBDP Art, Theatre, or Dance SL	IBDP Art, Theatre, or Dance HL

* IB Economics SL meets the requirements for graduation, and the IB diploma.
IB Business meets diploma requirements for group 6 or group 3.

The IB Career-Related Program (IBCP)

The IBCP incorporates the educational principles, vision and learner profile of the IB into a unique offering that specifically addresses the needs of students who wish to engage in career-related education. The IBCP encourages these students to benefit from elements of an IB education, through a selection of two to four Diploma Program courses in addition to a unique IBCP core, comprised of an approaches to learning (ATL) course, a reflective project, language development and community and service.

What are the benefits of the IBCP?

- Develop a broad range of career-related competencies and to deepen their understanding in general areas of knowledge
- Prepare for effective participation in an ever-changing world of work
- Foster the attributes of the learner profile allowing students to become true lifelong learners willing to consider new perspectives
- Engage in learning that makes a positive difference to future lives
- Become a self-confident person ready for life in the 21st century.

<http://www.ibo.org/en/programmes/career-related-programme/>

The IB Career-Related Program

	9th grade	10th grade	11th grade *	12th grade *
1	English 1	English 2	English 3	English 4
2	Algebra 1	Algebra 2	Geometry	Precalculus or Advanced Quantitative Reasoning
3	Biology	Chemistry	Physics	4 th Science
4	World Geography	World History	U.S. History	Government Economics
5	Language Acquisition 1	Language Acquisition 2	Language Acquisition 3 or Elective	Language Acquisition 4 or Elective
6	Principles of Business, Marketing and Finance	Business Information Management	SAT Prep/IBCP ATL	IBCP ATL/Elective
7	P.E. or equivalent	Elective* Health online before graduation	Fine Art	Elective
8	CTE Course 1: Agriculture, Engineering or Culinary	CTE course 2: Agriculture, Engineering or Culinary	CTE Course 3: Agriculture, Engineering or Culinary	CTE Course 4: Agriculture, Engineering or Culinary

The IB Career-Related Program requires that two classes in junior and senior year must be IB diploma level classes. PDP classes may be taken in grade(s) 9 and/or 10. For example:

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Principles of Business, Marketing and Finance	Business Image Management	IB Business SL	IB Business HL
English 1 (PDP or recommended)	English 2 (PDP or recommended)	IB English 3	IB English 4 HL
Language Development 1 or 2 PDP	Language Development 2 or 3 PDP	Language Development 3 PDP or IB 4 SL	IB Language Development 4 SL or 5 HL
PDP Biology	Chemistry (PDP or recommended)	IB Biology SL plus Physics (PDP or recommended)	IB Biology HL

CAREER AND TECHNOLOGY EDUCATION (CTE) COURSE SEQUENCES

Students regardless of grade, enter the programs in the first course in sequence. As an endorsement, it must be started in the 9th grade and continued through all four courses in sequence. Knowledge and skills build throughout the program and the previous course is required to continue through the sequence.

Students selecting a CTE course are required to take the sequence for at least two years, but are encouraged to take the entire sequence.

	First Course	Second Course	Third Course	Fourth Course
Animal Science	Principles of Agriculture	Small Animal Management/Livestock Production	Veterinary Medical Applications	Practicum in Animal Science
Business Finance	Principles of Business, Marketing and Finance	Accounting 1 or Banking and Finance	Career Prep 1 or Accounting 1 or 2	Career Prep 1 or 2 (multiple periods)
Culinary Arts	Principles of Hospitality and Tourism	Restaurant Management	Culinary 1	Practicum in Culinary (2 periods)
Horticulture	Principles of Agriculture	Horticultural Science	Landscape Design	Practicum in Horticulture
Science, Technology, Engineering and Math	Concepts in Engineering Technology	Engineering Design	Robotics and Automation	Electronics

GRADUATION PLAN

For the DISTINGUISHED LEVEL OF ACHIEVEMENT

Business Work Study Program

Earn Salary and High School Credit

Multidisciplinary Endorsement

	9th grade	10th grade	11th grade	12th grade
1	English 1	English 2	English 3	English 4
2	Language Development 1	Language Development 2	Elective	Elective
3	World Geography	World History	U.S. History	Government/ Economics
4	Biology	Chemistry	Physics	4 th Science*
5	Algebra 1	Algebra 2	Geometry	Precalculus or Advanced Quantitative Reasoning
6	Principles of Business, Marketing and Finance	Banking and Finance or Accounting 1	Career Prep 1 or Accounting 1 or 2	Career Prep 1 or 2
7	P.E. or equivalent	Elective* Health online before graduation	Elective or Off Campus with Career Prep	Elective or Off Campus with Career Prep
8	Elective or Fine Art	Fine Art or Elective	Elective or Off Campus with Career Prep	Elective or Off Campus with Career Prep

Students with 1 ½ credits in business classes are eligible to take Career Prep as juniors and/or seniors. Students take a 1 period class and are able to leave school early for 1 – 4 periods each year so they participate in the work/study program.

GRADUATION PLAN

For the DISTINGUISHED LEVEL OF ACHIEVEMENT

Earn College Credit with
HCC Dual Credit and AP College Credit Courses

Multidisciplinary Endorsement

	9th grade	10th grade	11th grade	12th grade
1	English 1	English 2	English 3	IBSL/HCC English 4
2	Language Development 1	Language Development 2	Elective	Elective
3	AP Human Geography	AP World History	U.S. History	AP Government
4	Biology	Chemistry	Physics	4 th Science*
5	Algebra 1	Algebra 2	Geometry	Precalculus or Advanced Quantitative Reasoning
6	Principles of Business, Marketing and Finance	BIM or Computer Science PDP	Govt./Economics	Elective or HCC Psychology
7	P.E. or equivalent	Elective* Health online before Graduation	HCC Psychology or Elective	Elective
8	Elective or Fine Art	Fine Art or Elective	Elective	Elective

Earn college credit with Advanced Placement or HCC classes as a junior and/or senior. Eligible students may qualify with SAT, ACT, TSI Assessment or TAKS scores and earn bonus grade points. Tuition is free for HCC Dual credit and eligible students may also take classes only for college credit in the sophomore and/or junior summer(s) with free tuition at the HCC Central Campus.

IB Diploma courses in 11th and/or 12th grade may also be added to earn college credit.

MY PLAN

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
1				
2				
3				
4				
5				
6				
7				
8				



Houston Independent School District
Hattie Mae White Educational Support Center
4400 West 18th Street • Houston, Texas 77092-8501

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Mirabeau B. Lamar High School **An International Baccalaureate World School**

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