

Springbrook High School
201 Valley Brook Drive
Silver Spring, MD 20904
301-989-5700 -Main Office
301-989-5710 –Counseling Services

ADMINISTRATIVE STAFF

Principal

Assistant Principals

Mr. Samuel Rivera

Ms. Nicole Brown

Mr. Maychel Harris

Ms. Nyurka Morales

RESOURCE TEACHERS AND DEPARTMENT CHAIRPERSONS

Art

Athletics

Business Management and Finance

Computer Science

College/Career Research and Development

English

ESOL

Family and Consumer Science

Health & Physical Education

IB Middle Years Program

Journalism

Mathematics

Media Center

Music

Science

IB Diploma Programme, Advanced Placement

Social Studies

Special Education

Technology

Theatre

World Languages

Mr. Jonathan Mann

Mr. Robert Wendel

Ms. Joanne Engel

Ms. Joanne Engel

Ms. Lesley Stroot

Mr. David Nicholson

Ms. Ileana Enache

Ms. Aimee Hawkins

Ms. Sharis Staton

Mr. John Weinshel

Ms. Wendy Borrelli

Ms. Jeanni Kim

Ms. Julie Simon

Mr. Wyman Jones

Ms. Serenity Moore

Mr. Mark Griffiths

Mr. Mark Pim

Mr. Michael Miller

Ms. Joanne Engel

Ms. Adrienne D'Orazio

Ms. Karen Willetts

COUNSELING SERVICES STAFF

Resource Counselor

Counselors

Mr. Allen Campbell

Ms. Madonna Brown-Miles

Ms. Tee Clark

Ms. Karen Greger

Mr. Kareef Overton

Ms. Katana Sanford

Ms. Mia Shin

Ms. Tammy Patterson

Ms. Annette Weber

Career Information Coordinator

Registrar



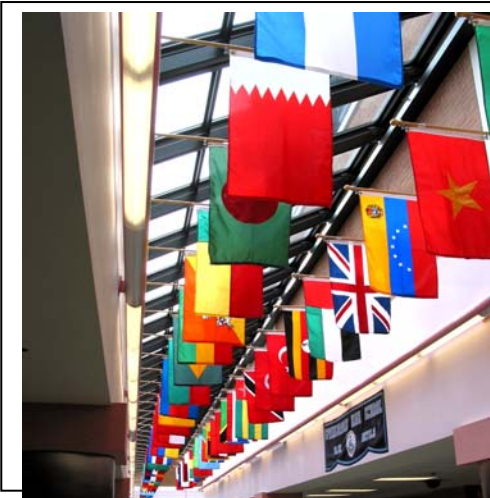
Springbrook High School



Mission

Springbrook High School, with its mosaic of cultures, challenges students academically to recognize and appreciate their individual talents. Thus empowered, students become lifelong learners who are culturally inquisitive, technologically adept, and prepared to contribute to and thrive in an interdependent world.

Signature School “IB World and Information Technology School”



Springbrook High School is nationally ranked. *The Washington Post's* High School Challenge rankings have consistently recognized Springbrook as one of the nation's leaders in education. In *The Washington Post's* 2012 rankings, Springbrook placed 756 out of the more than 1,600 schools that represent the top 6% high schools nationwide. Springbrook is the top ranked high school in the N.E. Consortium of schools according to the challenge index.

Springbrook offers students a challenging academic program with 50 college-level Advanced Placement and International Baccalaureate courses, a wide variety of electives, and a comprehensive extra-curricular program.

Springbrook High School serves a cosmopolitan, multi-national student body with a current student population born in 84 different countries and speaking more than 40 languages. The staff aims to guide every student through



intellectually demanding studies while fostering the sensitivities needed to function successfully within a community of divergent beliefs and differing cultural perspectives. The culturally and ethnically varied staff teaches students to respect and appreciate each other as individuals, even while holding different opinions or values.

International Studies

Springbrook High School provides the ideal setting for developing multi-cultural communication skills. With a broad interdisciplinary and multinational perspective, students experience extensive opportunities to define and showcase creativity, apply knowledge, and analyze global issues. Springbrook students may follow an International theme by taking courses such as:

- Arabic, Levels 1-3H
- French, Levels 1-7
- German, Levels 1-3H
- Italian, Levels 1-3H
- Spanish, Levels 1-7
- Spanish for Spanish Speakers I and II
- Art and Culture
- East Asia History
- International Cultures and Cuisines
- Internships in multinational corporations

Technology

Springbrook students may participate in the Academy of Information Technology (AOIT) through the National Academy Foundation. AOIT introduces students to broad career opportunities in today's digital workforce and, in the process, equips them with the personal, analytical, technical, and communications skills they need to thrive in today's workplace.

AOIT prepares students for post-secondary education and careers through a theme-based, contextualized curriculum approach. Academic learning experiences are combined with hands-on work experience to help students develop problem-solving skills critical to post-secondary education and career success.



Springbrook students may follow the Information Technology theme by taking courses such as :



- Designing Technological Solutions (Robotics)
- Digital Art 1-4
- Introduction to Engineering Design
- Microcomputer Technologies
- Network Engineering and Management
- Programming
- C++, Interactive C, Java
- Software Applications
- Web Site & Advanced Web Development
- Advanced Placement Computer Science
- IB Computer Science
- Information Technology in a Global Society
- Computer Science Research Projects

Students in a four-year AOIT program may specialize in computer programming, digital media, or network management. Seniors may participate in a paid internship experience before graduation.

Justice, Law and Society (JLS)

JLS: Gary Frace – 301-989-6058 or email at Gary_L_Frace@mcpsmd.org



Springbrook HS is one of only four schools in MCPS, and the only school in the Northeast Consortium, to offer Justice, Law and Society as a career pathway completer program. JLS is directed to students interested in pursuing law related careers such as law enforcement, homeland security, law, or forensics. These courses are designed to expose students to the world of law, including criminal law, civil law, constitutional law, and the wide range of professions in the field of justice and law enforcement. The primary goal of this program is for students to leave high school empowered by knowledge of how “the system” works. Upon successful completion of the JLS program, the student can articulate up to six (6) credits in Justice Law, and Society with a grade of B or better for a tuition savings of almost \$900 at Montgomery College.

Required Courses:

Introduction to JLS **AND** Law and the Administration of Justice

Choose 2 Credits among the following:

Theory of Knowledge, AP Psychology, Forensic Science, Sociology, AP National State and Local Government, and/or an Internship in Law, Government, Public Safety or Administration

Springbrook High School is the only high school in the world to partner with the legal department at Discovery Communications (home of the Discovery Channel and other channels). JLS students work directly with the legal department.



Hospitality Management/PROSTART

Hospitality Management: Lisa Seid – 301-989-6058 or email at Lisa_S_Seid@mcpsmd.org

The Hospitality Management program offers students the opportunity to refine their culinary skills while learning about other cultures and food technology. These are hands-on courses that include cooking labs.

ProStart is a career pathway program designed for high school students interested in future careers in the Hospitality management and culinary profession. It is the Maryland Hospitality Education Foundation's School-to-Career program, in partnership with the National Restaurant Education Foundation. College credit and National Certification is given to students that successfully complete coursework, pass a final exam, and complete an internship.

Required Courses:

Grades 9 -12: Food Trends and Technology
Culinary Essentials (ProStart year 1)
International Cultures & Cuisine (ProStart year 2)

Grade 12: Hospitality Management/Culinary Arts Internship
Food Internship

Child & Adolescent Development

Child & Adolescent Development: Aimee Hawkins– 301-989-6058 or email at Aimee_S_Hawkins@mcpsmd.org

The Child Development Program is designed for high school students interested in future careers in early childhood education, including an elementary school teacher. Students who complete Child and Adolescent Development I and II and meet all the required standards are eligible to receive a 90 hour clock certification.

Required Courses:

Grades 9 - 12: Child and Adolescent Development 1 A/B

Grades 10-12: Child Development 2 A/B Advanced Level

Grades 11-12: Child Development 3 A/B Advanced Level

Grades 12: Internship, Education, Training and Child Studies (This can be taken in conjunction with Child Development 3 A/B Advanced Level)



Certified Professional Horticulturist

Certified Professional Horticulturist: Randy Decker– 301-989-5700 or email at Randy_Decker@mcpsmd.org

The Horticulture program is based upon the content of the Certified Professional Horticulturist (CPH) certification that is used by the Maryland "Green Industry" and consists of four courses (4 credits) that include rigorous academics, broad cluster knowledge and skills, as well as technical knowledge related to the horticulture industry. These courses have been identified and developed with industry, postsecondary and secondary partners. The courses include: Introduction to, Foundations of Horticulture, Plant Production, and Landscape Design and Management. Students will have the opportunity to earn the CPH industry certification, and/or college credit through articulation agreements with local colleges and dual enrollment.

Required Courses:

Grades 10: Foundations of Horticulture

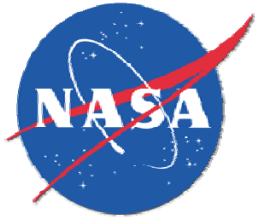
Grades 11: Plant Production

Landscape Design and Management

Grades 12: Capstone Experience. A work-based learning experience takes place at work-site within horticulture industry.



Springbrook High School Internship Program



The Internship Program at Springbrook High School offers a unique opportunity for, academically motivated, students to gain first-hand work experience, and to determine a career interest before graduation. The intern chooses the career cluster of their interest and works with the Internship Coordinator to find the most appropriate job site. Internships can be paid or unpaid and are usually for a full academic year; but can be for one semester. Students receive academic credit for the Internship Program.

Internships enable students to

- recognize how personal skills and talents fit into a career environment
- form accurate perspectives of skills and education needed to be successfully employed and promoted
- apply academic learning to practical situations and bring new perspectives back to the classroom
- develop effective interpersonal skills for the workplace

Please complete this Interest Form if you are interested in participating in the program.



Springbrook High School Internship Interest Form Date_____

Name _____ I D # _____ DOB _____

Phone # _____ Cell _____

Email Student _____ Email Parent _____

Home Address _____

2013-14 Year: SO ☐ JR ☐ SR ☐ Grad _____ Guidance Counselor 's Name _____

What is your career area of Interest (s) not sure see me re: Interest Inventory and list likes and dislikes

What courses and or experience do you have related to this career field?

When would you like to intern? (Check all that apply.) Summer ____ Fall 2013 ____ Spring 2014 ____

You receive academic credit for your internship. How many credits are you seeking?

2 Credits Double Period _____ AM or PM Circle One

3 Credits Triple Period _____ AM or PM Circle one

(AM is for students who have after school obligations - Note AM sites must open by 7:30am)

Most internships start out as unpaid and many can turn into paid opportunities if you do a good job.

How important is it that your internship be paid? (Check one.)

Not important- most interest in a great experience ☐ Would prefer it ☐ Very important ☐

Desired location(s)? Silver Spring ☐ White Oak ☐ D.C. ☐ Rockville ☐ _____ Other

Look at the list of internship fields on the opposite side of this page. Mark all that interest you.

What kind of organization would you like to intern with? (E.g. a bank, hospital, theatre, gym, social service, etc.) _____

Any specific sites you're currently considering: _____

This Internship Interest Form, along with the Student Course Registration, begins the formal application process for acceptance into an Out-of-School Internship. This completed form does not guarantee



acceptance into an out-of- school internship position. You will be given a program application packet to complete if you pass the initial screening on the Interest form. Please make sure to **print legibly in pen (Black or Blue Ink)** and complete all requested information. All areas must be completed. **Return this form to Mrs. Lowe in Room G-202 by January 30, 2013.**

SUMMER INTERNSHIPS – Apply directly with the agency or business now
See Mrs. Lowe for a list. Many paid summer internship can convert to a full year internship for your senior year.

GENERAL INTERNSHIP INTEREST CATEGORIES

Mark all that appeal to you. You may rank order them if desired.

- | | |
|--|---|
| <input type="checkbox"/> Accounting, Financial Services | <input type="checkbox"/> Fine Arts, Music, Theatre |
| <input type="checkbox"/> Architecture | <input type="checkbox"/> Government, Politics |
| <input type="checkbox"/> Engineering _____type | <input type="checkbox"/> Health Professions |
| <input type="checkbox"/> Administrative, Business Services | <input type="checkbox"/> International |
| <input type="checkbox"/> Agriculture | <input type="checkbox"/> Legal |
| <input type="checkbox"/> Art, Design | <input type="checkbox"/> Marketing, Sales |
| <input type="checkbox"/> Biosciences – Research, applications | <input type="checkbox"/> Physical Sciences – Research, applications |
| <input type="checkbox"/> Business Operations, Management, HR | <input type="checkbox"/> Public Relations, Event Planning, |
| <input type="checkbox"/> Communications, Media | <input type="checkbox"/> Entertainment |
| <input type="checkbox"/> Computers, Information Technology | <input type="checkbox"/> Social Service, Non-Profit, |
| <input type="checkbox"/> Construction, Trades, Manufacturing | <input type="checkbox"/> Adoption Agency |
| <input type="checkbox"/> Criminal Justice | <input type="checkbox"/> Sports, Athletic Training, Recreation |
| <input type="checkbox"/> Education, Children’s Programs, Library | <input type="checkbox"/> Tourism, Travel |
| <input type="checkbox"/> Environment, Conservation | <input type="checkbox"/> _____ |

Bring this Completed Interest Form to Mrs. Lowe in G-202 to get an Internship Application Packet

International Baccalaureate Diploma Program





Springbrook students may elect to participate in the International Baccalaureate (IB) Diploma Programme in Grades 11 and 12. To earn an IB diploma, students must take a rigorous liberal arts course of studies and pass examinations in six subjects. Examinations are given in:

English, History, Music, Science, Mathematics, World Languages, Visual Arts

The required IB Diploma Programme course of study also involves participation in “Creativity, Action, Service” activities, completion of the Theory of Knowledge course, and writing an “Extended Essay.” IB students may choose from any of more than 25 International Baccalaureate courses offered by the school.

Completion of an IB program in high school is a highly desirable credential sought by colleges and universities in the United States and other nations. The curriculum, examinations, and grading are uniform throughout IB programs around the world. The following IB subjects are offered. Standard Level (SL) classes typically require one year of study, Higher Level (HL) two years:

- Biology HL
- Chemistry SL
- Computer Science SL and HL
- English HL
- French SL and HL
- History of Asia and Oceania HL
- Mathematics SL and Math Studies SL
- Physics SL
- Environmental Systems and Societies SL
- Spanish SL and HL
- Theory of Knowledge
- German, Italian, Arabic: Ab initio
- Visual Arts SL and HL
- Sports, Exercise and Health Science SL
- Design Technology SL
- Advanced Music SL and HL
- Film Studies SL and HL

IB DP Course Students



Students who are not interested in pursuing the IB Diploma but are interested in studying in a subject of intense interest may pursue a certificate in that subject. IB DP Course students may take the Theory of Knowledge and Extended Essay courses. It is important to point out that colleges tend to give credit to Higher Level (HL) classes. Students pursuing the IB Diploma will be given preference in class enrollment.

The International Baccalaureate Middle Years Program

Grades 9 and 10

The International Baccalaureate Middle Years Program at Springbrook is an inclusive program. All 9th and 10th grade Springbrook students receive an IB MYP education. Teachers are trained to deliver the MCPS curriculum with a focus on the IB MYP philosophy of inquiry thinking, clear communication, reflection, global awareness and intercultural sensitivity. The IB MYP prepares students for the changing demands of life in the 21st century. The overall goal of our program is to educate students who will be life-long learners, critical thinkers and responsible global citizens. IB learners strive to be inquirers, knowledgeable, thinkers, communicators, principled, open-minded, caring, risk-takers, balanced, reflective.

IB MYP students develop a broad and balanced base of knowledge through the study of eight subjects that include the study of a world language in grades 9 and 10. The eight subjects are:



- Language A – English
- Language B – Arabic, French, German, Italian,
Spanish, Spanish for Spanish Speakers
- Humanities – Social Studies
- Mathematics
- Science
- *Physical Education
- *Arts – Performing (Music or Drama), Visual Arts
- *Technology

*Since there are only 7 periods in a school day and numerous academic requirements to meet, both for MSDE and IB, students can register for the last three courses in either grade 9 or 10 depending on their schedule **but students need to take one of the three areas (PE/Health, Tech or Arts) for the full two years.** Students can fulfill the



requirements for MSDE in the other period. Essentially, it gives them additional flexibility with that last period of the day. Flexible schedule is available for students pursuing the Career Pathways or are musicians.

Suggested 9th and 10th Grade Sample Schedules

Grade 9 Schedule	Grade 10 Schedule
English	English
World Language	World Language
Mathematics	Mathematics
Science	Science
Social Studies	Social Studies
Physical Education	Health (1 semester)/ Elective
Arts* or Technology*	Technology* or Arts*

In grade 10, students work on a personal project, a culminating endeavor that highlights a personal interest and learning experience for each student. Students who complete a personal project successfully receive .5 credits and are awarded a certificate of completion for their work in Middle Years courses and the personal project.

Special registration and fees are not associated with the IB MYP at Springbrook High School.

General Information

The course registration materials have been prepared to assist students in making the best selection of classes for the 2013-2014 school year at Springbrook High School. It is essential that these course selections be made in a serious manner and wisely selected. The time for investigation, discussion and decision-making is well before registration. Students should verify their credits and graduation requirements with their counselor if they have questions about course selection. If a student is academically misplaced, the student should see his or her counselor.



This booklet is a supplement to the online High School Course Bulletin (<http://www.MCPSCourses.org>). Please read descriptions in the Course Bulletin for details about content of courses. If there is a prerequisite for taking a class, it is listed in the Course Bulletin or on the registration card.

Academic Eligibility for Participation in Extracurricular Activities

Students must maintain a 2.0 marking period average with not more than one failing grade in the preceding marking period in order to participate in all extracurricular activities during the next marking period. The marking period average is not the same as the GPA. (MCPS Regulation IQD-RA: *Academic Eligibility for High School Students Who Participate in Extracurricular Activities*)

Schedule Changes

The number of sections of a particular subject is determined by student/parent course selections made in February. The scheduling software randomly assigns students to one of the teachers assigned to teach that subject. Requests for specific teachers will not be honored. All teachers assigned to teach a subject are certified and competent to deliver the prescribed MCPS curriculum.

Students are expected to select their courses carefully, in consultation with their parents, teachers, and counselors. Staffing decisions are made based upon these course selections. Therefore, schedule changes will normally be made only in the following instances:

- the student failed a prerequisite course and cannot continue in sequence;
- the student attended summer or night school and can advance in sequence;
- the student did not register for the appropriate course progression;
- the student is requesting and is recommended for a more appropriate course level.

A schedule change request that does not meet any of these criteria requires a personal conference with a student's counselor. In considering the request, the counselor may confer with the teachers involved, resource teachers, and/or administrators. Arranging such an appointment does not imply that the requested schedule change can or will be made. Students are expected to continue attending all classes in their current schedule until a decision is made.



Maryland Diploma Requirements

MCPS GRADUATION REQUIREMENTS AT A GLANCE			
English	4 credits		
Fine Arts	1 credit (Courses in art, dance, drama/theater, and music satisfy the fine arts requirement a)		
Health Education	0.5 credit		
Mathematics	4 credits** (1 algebra credit, 1 geometry credit) Students who successfully complete a calculus course may be exempted from this 4-credit requirement.		
Physical Education	1 credit		
Science	3 credits (1 biology credit and 1 physical science credit)		
Social Studies	3 credits (1 U.S. History credit, 1 National, State, and Local Government credit; 1 World History credit)		
Technology Education	1 credit		
Electives: The additional credits required for graduation may be fulfilled by one of the following three options	OPTION 1	OPTION 2	OPTION 3
	2 credits in a foreign language OR 2 credits in American Sign Language AND 2.5 credits in elective courses	2 credits in advanced technology education AND 2.5 credits in elective courses	4 credits in a state-approved career and technology program AND 0.5 credit in electives courses
Student Service Learning (SSL)	75 service-learning hours		
Assessment Requirements			
High School Assessments	Students must meet the Maryland High School Assessments requirements for English, algebra/data analysis, biology, and government in the 2013-2014 school year.		



MCPS PROMOTION POLICY

The chart indicates the minimum number of credits each student must earn to be promoted to the next grade.

End of:	Total Credits Needed for Promotion to Next Grade	Mathematics Credits in Required Courses	English Credits in Required Courses	Science Credits in Required Courses	Social Studies Credits in Required Courses	Other Credits
Grade 9	5	1	1	0	0	3
Grade 10	10	2	2	1	1	4
Grade 11	15	3	3	2	2	5
Grade 12	22	4	4	3	3	8

Student Service Learning (SSL)

75 hours of student service learning activities are required. Student Service Learning (SSL) is an unpaid activity within the curriculum, school, or outside community that provides service to an individual or group to address a school or community need. Students may earn SSL hours through designated school courses and extracurricular activities. Students must complete a "Verification of SSL Activity" form for all activities except those done as part of a course. Further information may be obtained from the Guidance Office, the *MCPS High School Course Bulletin*, and the Springbrook SSL coordinator.

High School Assessments

The High School Assessments (HSAs) are four state mandated tests that students in the graduating class of 2009 and later must pass in order to graduate. The four subject areas are:

- Algebra/Data Analysis (1)
- Biology
- English (10)
- Government (NSL)

When do students take the HSA?

Students take each test as they complete each course. For example, the HSA for English 10 will be taken in 10th grade.

Some students take Algebra 1 in middle school. In that case, they will take the HSA in middle school when they complete the course.



Can students take the test again if they do not pass the first time?

Yes. Students should speak to their school counselors about receiving extra help. Once students have received this help, they should retake the test. The tests are given four times a year – January, May, July and October. Since it takes approximately three months for students to get the results, students should make sure they have passed all tests before Grade 12.

Registration Timeline

January 28–February 21 Springbrook counselors provide orientation and registration for students in grades 9–11

February 4–8 Counselors visit middle schools to distribute registration materials.

February 11 7 pm Parent Information and Registration Night at Springbrook for all students

February 22 **Registration materials DUE** in Counseling Services Department from all students. This is a final date for registration materials. No chance to make any changes to schedule unless one of the above criteria is applicable.

Registration Instructions:

1. Print all information requested on your registration card. BE NEAT! Practice configuring your classes first on your registration sheet in the registration handbook.
2. If you wish to be considered for honors classes, circle or highlight the appropriate course on the registration card.
3. Circle or highlight 14 courses and course code selections (seven per semester) for which you wish to be considered.
4. Under the words "Alternate Selections", list two additional courses of interest to you for each semester in case there is a schedule conflict. Please print neatly. If you do not list alternate choices, counselors will select alternate classes for you if a conflict arises.



Advanced Placement and Honors Courses

Honors and Advanced Placement (AP) courses provide rigorous and challenging studies for potentially high-achieving students who are capable and motivated. Springbrook High School encourages **all** students to take at least one Honors or AP class prior to graduation to prepare for college and for other continuing education options. During the 2012–2013 school-year, approximately 80% of Springbrook students are enrolled in Honors classes, with 25% taking AP classes. While there is no formal process for admission into Honors or AP classes, students should be aware that all advanced-level courses involve higher-level assignments as compared to regular-level courses, and that more time will need to be spent on work done outside of the classroom. Honors courses provide expectations and opportunities for students to work independently at an accelerated pace, to engage in more rigorous and complex content and processes, and to develop authentic products that reflect a true understanding of key concepts.

Advanced Placement courses provide motivated high school students with the opportunity to take college-level courses in high school. Students who participate in the program not only gain college-level skills, but, in many cases, earn college credit while they are still in high school.



Art

Resource Teacher: Mr. Jonathan Mann – 301-989-5794 or email at Jonathan_S_Mann@mcpsmd.org

Graduation Requirements: One Fine Arts credit

Grades 9 –12

Art and Culture
Ceramics/Sculpture 1
Digital Art 1
Drawing and Design
Photography 1

Grades 10 –12

Ceramics/Sculpture 2
Ceramics/Sculpture 3
Digital Art 2
Digital Art 3
Photography 2
Studio Art 1
Studio Art 2
AP Studio Art: Drawing
AP Studio Art: 2-D
AP Studio Art: 3-D
IB Visual Arts 1
IB Visual Arts 2

International Baccalaureate Diploma Program:

Students preparing for the Standard Level IB Visual Arts assessment should enroll in any art course prior to Grade 11. Subsequent enrollment in IB Visual Arts will prepare students for the Standard Level IB Visual Arts assessment. Students preparing for the Higher Level IB Visual Arts assessment should take a second year of IB Visual Arts.



Business Management and Finance

Resource Teacher: Joanne Engel – 301-989-5791 or email at Joanne_E_Engel@mcpsmd.org

Students in the business courses develop a strong foundation in business operations through the application of a wide range of business principles which prepare students for real world situations.

Grades 10 –12

Marketing1

Personal Finance (1 semester)

College/Career Research and Development

Chair: Lesley Stroot – 301-989-6092 or email Lesley_E_Stroot@mcpsmd.org

Students will focus on self-awareness, career awareness, career exploration, and setting academic and career-related goals. Students will be required to prepare for and participate in an interview process, create a functional resume, learn about post-secondary opportunities and workplace readiness skills. Students will be introduced to basic concepts of financial literacy to help them manage their personal finances.

In Site Based Work Experience (SBWE), students continue to have the opportunity to practice and reflect on these skills through a work-place learning opportunity. The workplace component is a mentored, on-the-job, work experience with a written, personalized, work-based learning agreement and plan. Students participate in developing their SBWE plan with assistance from the SBWE teacher and workplace mentor/supervisor.

Grades 10-12 College/Career Research Development A/B 1 credit

Grades 11-12 College/Career Seminar A/B 1 credit

(prerequisite CCRD A/B)

Site Based Work Experience: Double Period 1 credit

Site Based Work Experience: Triple Period 2 credits

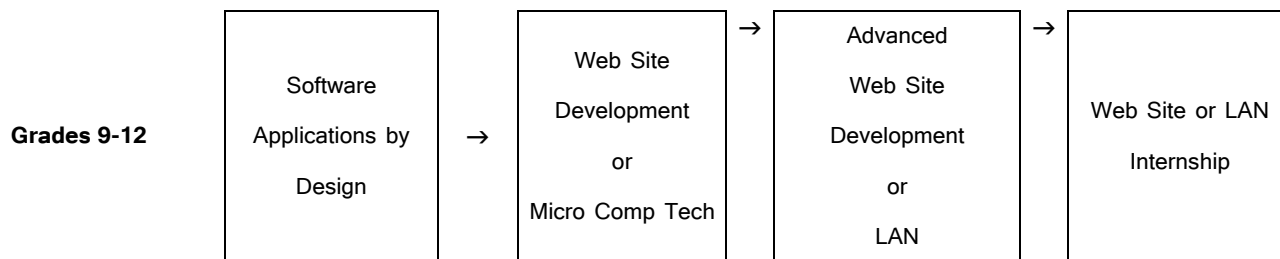
(taken concurrently with CCS)



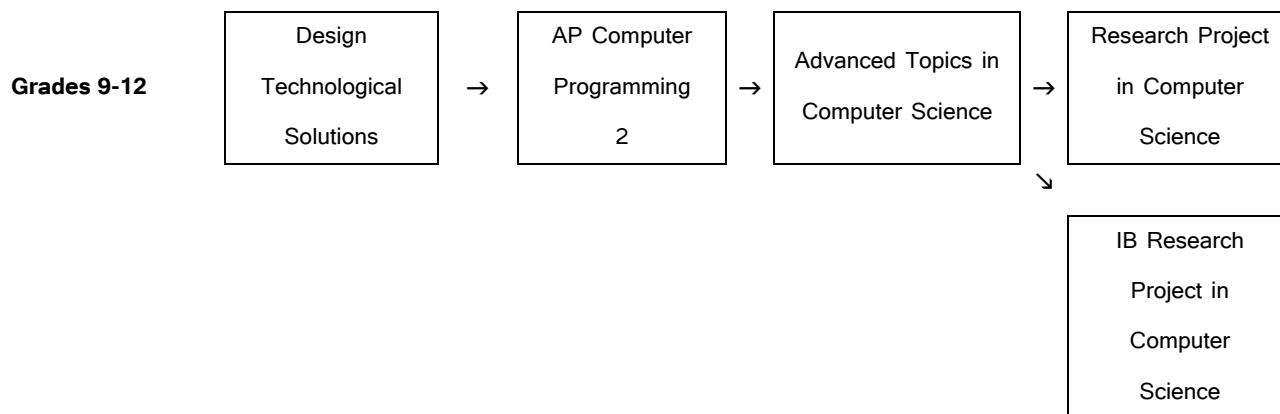
Computer Science

Resource Teacher: Joanne Engel – 301-989-5791 or email at Joanne_E_Engel@mcpsmd.org

SOLVING PROBLEMS BY USING SOFTWARE



SOLVING PROBLEMS BY PROGRAMMING



Students entering Design Technological Solutions should have satisfactorily completed Geometry or be enrolled in Honors Geometry or Algebra 2 Honors

International Baccalaureate Diploma Program:

Students preparing for the Standard Level IB Computer Science assessment should complete programming courses through at least Advanced Topics in Computer Science. Students preparing for the Higher Level IB Computer Science assessment should continue through at least one semester of the IB Research Project in Computer Science. This course should be taken in the year the student plans to take the IB examinations as it allows students to develop the dossier program in class and cover topics unique to the IB exam.



English

Resource Teacher: David Nicholson – 301-989-6071 or email at David_S_Nicholson@mcpsmd.org

Graduation Requirements: Four English credits

Grade 9

English 9

Honors English 9

Grade 10

English 10

Honors English 10

Grade 11

English 11

Honors English 11

AP Language and Composition

IB English 1

Grade 12

English 12

Honors English 12

AP Literature and Composition

IB English 2

English Electives:

SAT Preparation (1 semester: 1 quarter English/1 quarter math)

College Prep Literacy I and II (counselor/teacher recommendation only)

IB Film Studies (grades 11 and 12 only)

International Baccalaureate Diploma Program:

Students must enroll in IB English 1 in Grade 11 and IB English 2 in Grade 12. These two courses prepare students for the Higher-Level IB Language A1 (Literature) assessment at the end of Grade 12.



English for Speakers of Other Languages

Resource Teacher: Ileana Enache - 301-989-6069 or email at Ileana_Enache@mcpsmd.org

Classes	ESOL 1	ESOL 2	ESOL 3	ESOL 4	ESOL 5	METS
One period of ESOL for English credit	√	√	√	√	√	√
A second period of ESOL for elective credit	√	√				√
Developmental/Basic Reading By recommendation only	√					
Academic Reading By recommendation only		√				
Read 180 By recommendation only			√			



Health and Physical Education

Resource Teacher: Sharis Staton- 301-989-6065 or email at Sharis_T_Staton@mcpsmd.org

Health Graduation Requirement: One half credit (1 semester)

Grades 10 –12 Honors Comprehensive Health Education

Grades 11 –12 Family Life and Human Development (1 semester elective)

Physical Education Graduation Requirement: One credit

Grades 9-12 General Physical Education

- Basketball
- Dance
- Net Games
- Soccer
- Volleyball
- Technology in Physical Education
- Weight Training



Music

Department Chair: Wyman Jones – 301-989-6062 or email Wyman_O_Jones@mcpsmd.org

Graduation Requirements: One Fine Arts credit

Grades 9-12

Chorus 1
Guitar
Music Theory (Bach to Pop)
Symphonic Orchestra (Strings)
Symphonic Band/Marching Band*

Grades 10 –12

Honors Chamber Singers (audition)
Chorus 2
Guitar 2
Jazz Ensemble (audition)
Piano 1
Piano 2
Show Choir (audition)

Grades 11 –12 Chorus 3 (audition)

Honors Symphonic Band/Marching Band*
Honors Symphonic Orchestra (Strings)
Honors Jazz Ensemble (audition)
Guitar 3/4 (Music Theory and Composition)
IB Advanced Music (AP Music Theory or permission of teacher pre-requisite)
AP Music Theory

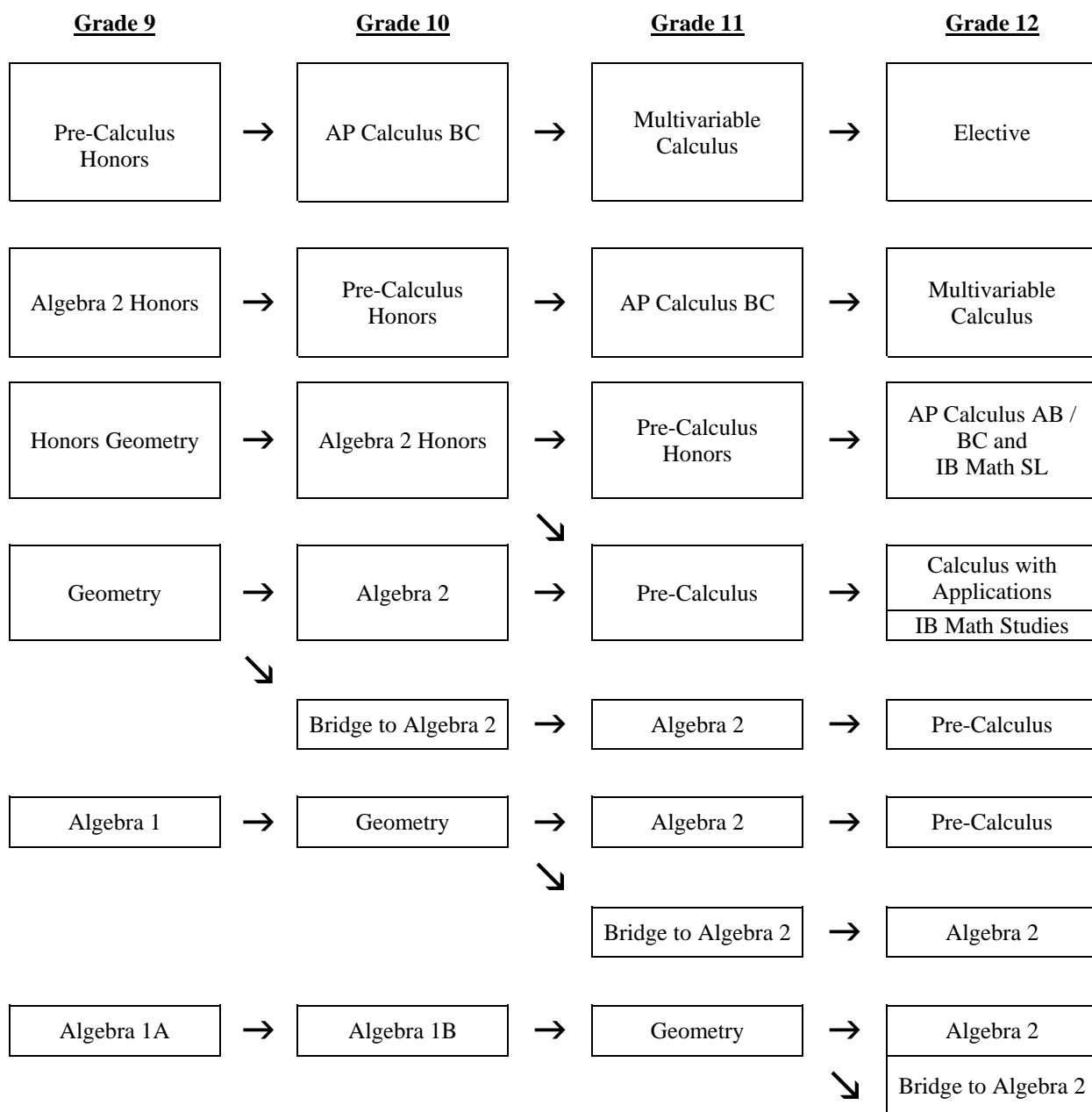
*Marching Band is the first quarter course. Symphonic Band is the second through fourth quarter course.



Mathematics

Resource Teacher: Jeanni Kim – 301-989-5787 or email: Jeanni_M_Kim@mcpsmd.org

Graduation Requirements: Four credits that must include Algebra and Geometry.



Electives:

Class

AP Statistics
Statistics and Mathematical Modeling
Bridge to Algebra 2
Quantitative Literacy
College Test Preparation (1 semester)

Pre-Requisites

Pre-Calculus
Algebra 2
Geometry
Bridge to Algebra 2 or Algebra 2
None

International Baccalaureate Diploma Program:

Students preparing for:
Math Studies Exam
Standard Level Exam

Must complete course up to:
IB Math Studies
Honors Pre-Calculus, AP Calculus AB or BC, IB Math SL (1 sem)

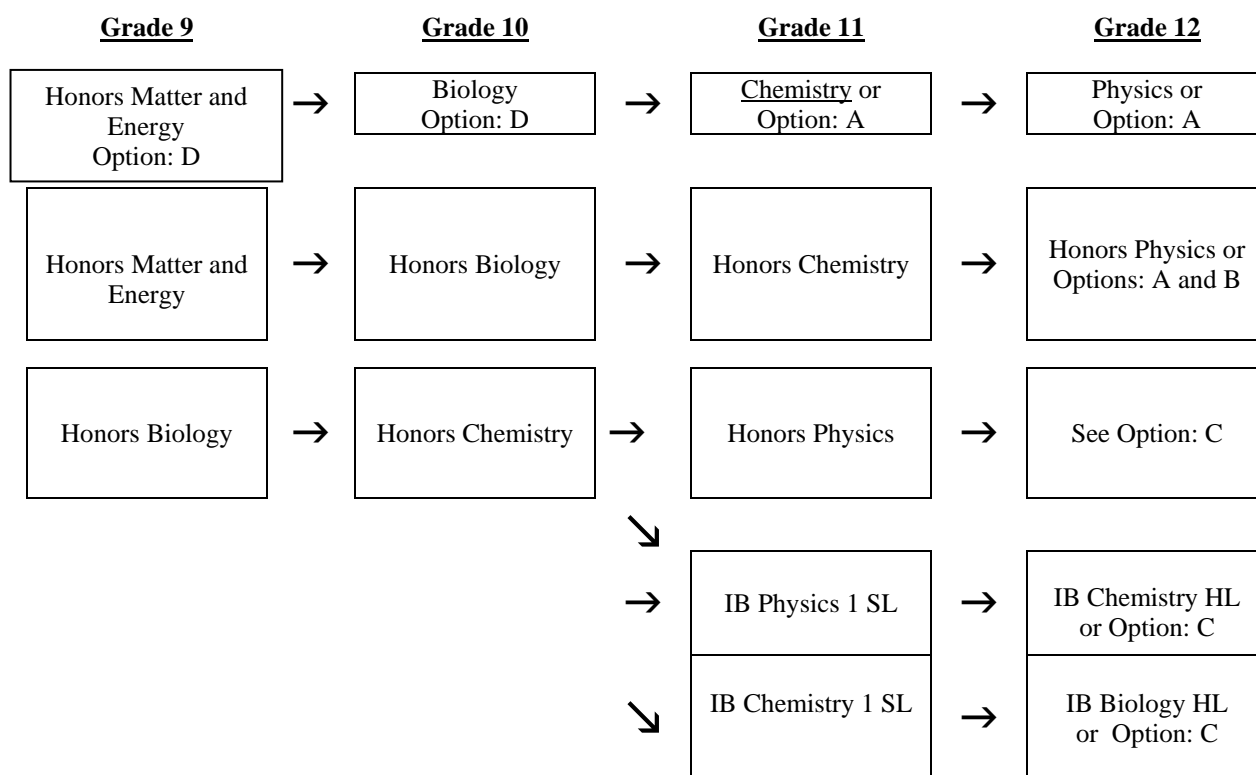


Science

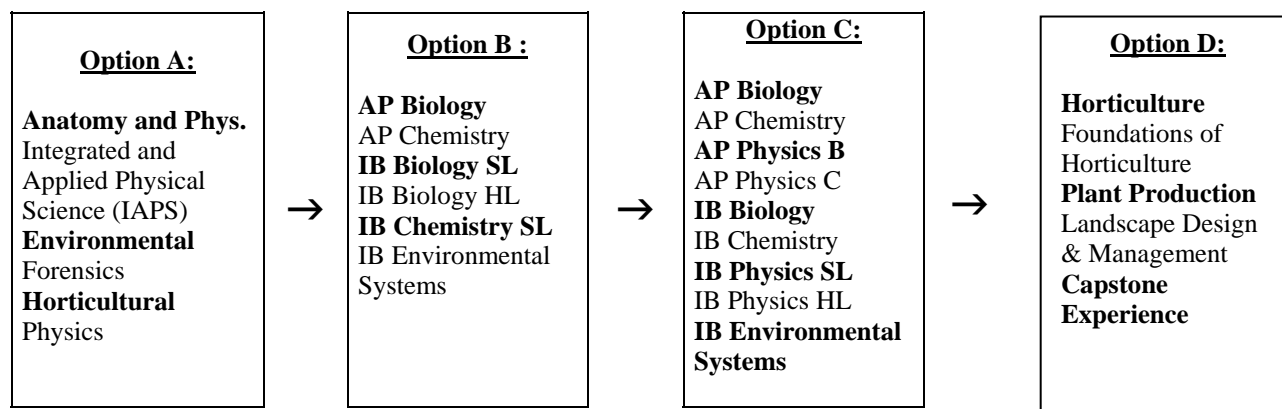
Resource Teacher, Serenity Moore – 301-989-6064

For complete course descriptions see the online High School Course Bulletin: <http://www.MCPScourses.org>.

Graduation Requirements: Three credits: 1 must be biology, physical science and science elective.



Electives



International Baccalaureate Diploma Program students must take one IB science course offering at either SL or HL levels. Students interested in obtaining an **IB science certificate** may take any IB science course providing course prerequisites have been met.



Social Studies

Resource Teacher: Mark Pim- 301-989-5792 or email Mark_A_Pim@mcpsmd.org

Graduation Requirements: Three credits that must include:

- U.S. History
- National, State and Local Government (NSL)
- World History

Grade 9

United States History

Honors United States History

AP United States History

Grade 10

National, State, and Local Government (NSL)

Honors National, State, and Local Government

AP National, State, and Local Government and Politics*

Grade 11

Modern World History

Honors Modern World History

AP World History

IB History 1

Theory of Knowledge 1/Extended Essay

Grade 12

IB History 2

Theory of Knowledge 2 (1 semester) **

Electives

AP Psychology

African American History (1 semester)

East Asia History (1 semester)

Introduction to Justice, Law, and Society

Law and the Administration of Justice

Psychology

Sociology

* It is recommended that Grade 10 students preparing for the **International Baccalaureate Diploma**

Program take AP National, State, and Local Government and Politics.

**All International Baccalaureate Diploma Program students must enroll in Theory of Knowledge1 and Extended Essay in Grade 11 and Theory of Knowledge 2 in Grade 12. Students preparing for the Higher Level IB History assessment must enroll in IB History 1 in Grade 11 and IB History 2 in Grade 12.



Special Education

Resource Teacher: Michael Miller – 301-989-6068 or email at Michael_R_Miller@mcpsmd.org

The special education department supports over 200 students in a comprehensive program that includes both Functional Life Skills and diploma candidate students. In addition to a resource room, the following courses are offered to students with disabilities through a team taught model.

Grades 09	English
	U.S. History
	Algebra 1
	Matter and Energy
Grades 10	English
	Biology
	Geometry
	National State and Local Government
Grades 11-12	English
	Modern World History
Grades 9-12	Resource



Technology Education

Resource Teacher: Joanne Engel – 301-989-5791 or email Joanne_E_Engel@mcpsmd.org

Graduation Requirements: One Technology credit or in addition two Advanced Technology Credits (if used as a Career Completer)

Grade 9 Design Technological Solutions
 Foundations of Technology

Grades 10-12 Design Technological Solutions
 Introduction to Engineering Design
 Microcomputer Technologies
 Network Engineering and Management*
 Advanced Design Applications (Advanced Tech Credit)
 Advanced Technology Applications (Advanced Tech Credit)

**Microcomputer Technologies is a prerequisite for Network Engineering and Management.*

Theater

Chair: Adrienne D'Orazio – 301-989-5792 or email Adrienne_M_D'Orazio@mcpsmd.org

The theater program trains students in the basic terminology and techniques of the theatrical world. Students rehearse and perform improvised and scripted works at all levels.

Graduation Requirements: One Fine Arts credit

Grade 9-12 Theater 1 and 2



Journalism/Publications

Chair: Wendy Borrelli – 301-989-6074 or email Wendy_T_Borrelli@mcpsmd.org

The journalism program provides students with the opportunity to work hands on in the journalism field. Students are taught basics of reporting, writing, editing and design. Upper level course participants run student publications.

Journalism Electives: Journalism A: Editing, Gathering, and Reporting the News (1 semester)

Journalism B: Newspaper Layout and Design (1 semester)

Blueprint (print newspaper)

Trident (Yearbook)

Journalism A and B are prerequisites for *Blueprint* (print newspaper).



World Languages

Resource Teacher: Karen Willetts - 301-989-6059 or email at Karen_F_Willetts@mcpsmd.org

Graduation Requirements: Two World Language credits

Courses are sequential and students must meet prerequisites to move to the next level of a language. Students are placed according to their language proficiency based on the recommendation of the World Languages Department.

	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u> <u>3 Honors</u>	<u>Level 4</u> <u>4 Honors</u> <u>4 IB</u>	<u>Level 5</u> <u>AP</u> <u>Language</u> <u>5 IB</u>	<u>Level 6</u> <u>6 IB</u>	<u>Level 7</u> <u>7 IB</u>
Arabic	√	√	√				
French	√	√	√	√	√	√	√
German	√	√	√				
Italian	√	√	√				
Spanish	√	√	√	√	√	√	√
Spanish for Spanish Speakers			Level 1 √	Level 2 √			

International Baccalaureate Diploma Program:

Students preparing for the Ab Initio level IB exam should complete through Level 3 (Arabic, Italian, and German)

Students preparing for the Standard Level IB French or Spanish assessments must complete language courses through Level 5. Students preparing for the Higher Level IB French or Spanish assessments must complete language courses at least through Level 6.



Thomas Edison High School of Technology

Program Offerings - 2013-2014

Students may elect to take the first year of a two-year program if they are not using the course as a program completer. All TEHST programs offer 1.5 credits per semester. Some courses have prerequisites. Most courses are career development completer programs, but not all (i.e. our Web Technology and Digital Media course). As a general rule, we do not enroll Grade 9 students. Grade 11 and 12 students have program placement priority. In some programs, Grade 10 students are typically considered if space is available in the course. Advanced Technology courses are marked with a “**”. Biotechnology is an advanced level course with science credit and is offered in the PM only. Medical Careers is offered in the PM only. Courses articulated with Montgomery College for college credit are in *italic* type.

<u>Course</u>	<u>Grades</u>
Foundations of Automotive Technologies (TP)	10-12
Auto Body Repair Technology (TP)	10-12
Automotive Technology (TP)	10-12
Biotechnology w/ Science credit & Adv Level (DP)	11-12
Special Topics in Biotechnology w/ Adv Level (SP) (required Biotech internship)	
Cosmetology (3 year program)	10-12
Related Math A	
Applied Science	
Principles of Architecture (TP)	11-12
and CAD Technology (Drafting)	
Printing, Graphics & Electronic Media (TP)	11-12
Academy of Hospitality and Tourism (SP)	11-12
Hospitality for Academy of Hospitality/Tourism (SP) (AOHT required internship)	
Systems for Academy of Hospitality/Tourism/	
Travel Geography for Academy of Hospitality/Tourism (SP)	
Foundations of Building (TP)	10-12
and Construction Technologies	
Carpentry (TP)	10-12
Heating/Air Conditioning (TP)	10-12
Masonry (TP)	10-12
Electricity (Construction) (TP)	10-12
Plumbing (TP)	10-12
Medical Careers (DP)	11-12
Science (SP)	
Nail Technology (TP)	11-12
Network Operations (TP)	11-12
Professional Restaurant Mgmt. (TP)	11-12
Web Technology & Digital Media	11-12
Web Site Development (SP)	
Advanced Web Tools and Digital Media (SP)	
Information Technology Guided Research (SP)	



The International Baccalaureate (IB) Program

The Diploma Program Curriculum:

The program has the strengths of a traditional and broad curriculum, but with three important additional features:

1. Theory of Knowledge (TOK) is an interdisciplinary requirement intended to stimulate critical reflection on the knowledge and experience gained inside and outside the classroom. The course challenges students to question the bases of knowledge, to be aware of subjective and ideological biases, and to develop the ability to analyze evidence that is expressed in rational argument. It is a key element in encouraging them to appreciate other cultural perspectives. The course is unique to the IBO, which recommends at least 100 hours of teaching time spanning the program's two years.

2. Creativity, Action, Service (CAS)

The IBO's goal is to educate the whole person and foster responsible, compassionate citizens. The CAS program encourages students to share their energy and special talents with others: students may, for example, participate in theatre or musical productions, sports and community service activities. Students should, through these activities, develop greater awareness of themselves, concern for others, and the ability to work co operatively with other people.

3. An extended essay of 4,000 words

Each student has the opportunity to investigate a topic of special interest. The essay requirement acquaints diploma candidates with the kind of independent research and writing skills expected by universities. The IBO recommends that a student devote a total of about 40 hours of private study and writing time to the essay, which may be written in one of 60 subjects, including many languages. The essay permits students to deepen their programs of study, for example by selecting a topic in one of their higher level (HL) courses. Or they might add breadth to their academic experience by electing to write in a subject not included in their program choices.

The Six Academic Subjects:

These are studied concurrently and students are required to study both the humanities and the sciences. Diploma candidates must select one subject from each of the six groups, although a second subject from groups 1 to 5 may be substituted for group 6. At least three but not more than four are taken at higher level (HL), while the others are standard level (SL); HL courses represent a minimum of 240 teaching hours, SL courses cover 150 hours. Students are thus able to explore some subjects in depth and others more broadly, a deliberate compromise between the early specialization of some national systems and the breadth found in others. The science-oriented student is challenged to learn a World Language and the natural linguist becomes familiar with laboratory procedures. The subjects are continually reviewed and revised to meet contemporary needs. The list below serves as a current guide only.



Group 1 - language A1-Literature

Language A1 Literature is the study of literature in English, including the study of selections of world literature in translation. Students are able to develop a personal appreciation of literature, skills in literacy criticism, strong written and oral skills, respect for the literacy heritage of English language texts and an international perspective.

Group 2 – language B

All diploma candidates are examined in a second language. Several options accommodate near-bilingual students with a very high level of fluency, genuine second language learners with previous experience learning the language, and beginners. The principal aim for the subjects in group 2 is to enable students to use the language in a range of contexts and for many purposes; the courses focus on written and spoken communication.

Group 3 – individuals and societies

Subjects included in this group are: history, of Asia/Oceania, and Environmental Systems and Societies.

Group 4 – experimental sciences

The subjects available in group 4 are: biology, chemistry, Environmental Systems and Societies, Computer Science and physics. Practical laboratory skills are developed and collaborative learning is encouraged through an interdisciplinary group project. Students develop an awareness of moral and ethical issues and a sense of social responsibility is fostered by examining local and global issues.

Group 5 – mathematics All candidates for a diploma are required to complete a mathematics course, and four options are available to cater for different abilities and levels of student interest. Each course aims to deepen a student's understanding of mathematics as a discipline and to promote confidence and facility in the use of mathematical language.

Group 6 – arts and electives

This includes visual arts, music and film with emphasis placed on practical production by the student and exploration of a range of creative work in a global context. Instead of the arts students may elect to take an additional course from groups two through five.

Assessing student work and awarding the diploma

Classroom teachers and IB examiners work in partnership to ensure that students have ample opportunity to demonstrate what they have learned. Grades reflect attainment of knowledge and skills relative to set standards applied equally to all schools. Top grades are not, for example, awarded to a certain percentage of students. Responsibility for all academic judgments about the quality of candidates' work rests with some 3,400 IB examiners worldwide, led by chief examiners with international authority in their fields. Some 40,000 students will be assessed by the IBO. Each year approximately 80% of candidates who attempt the diploma succeed in earning it. Examinations are offered in May for northern hemisphere schools and in November for those in the southern hemisphere.



IB DP Course Students

Students who are not interested in pursuing the IB Diploma but are interested in pursuing an area of study that plays to their strength may pursue a certificate in that class. Students can take the Theory of Knowledge and Extended Essay class if they pursue the certificate option. It is important to point out that colleges tend to give credit to Higher Level (HL) classes which are typically 2 year courses. Students pursuing the IB Diploma will be given preference to class enrollment.

The International Baccalaureate Six Subject Hexagon by Groups



Suggested Schedule Pathway

International Baccalaureate Diploma Program

The International Baccalaureate (IB) Program at Springbrook High School is a small community of highly motivated learners. Students in this program pursue a rigorous and comprehensive 2-year curriculum that focuses on international studies through six disciplines. Emphasis is also placed on an additional component, Theory of Knowledge, which provides students with thought provoking skills to challenge and analyze learning and its philosophical and ideological approach. The goal of the program is to prepare students for any course of study. Students who complete the pathway are more than prepared for scholarly responses and critical discussions at the secondary and collegiate level.

Students in the IB Program are required to fulfill 150 Creativity, Action, and Service (CAS) hours in Grades 11 and 12. Participation in extracurricular sports, student government, arts and community activities may be included.



Grade 9	Grade 10	Grade 11	Grade 12
English <i>English 9</i> or <i>Honors English 9</i>	English <i>English 10</i> or <i>Honors English 10</i>	English <i>IB English 1</i>	English <i>IB English 2</i>
Mathematics <i>Honors Geometry</i> or <i>Honors Algebra 2</i> or <i>Honors Precalculus</i>	Mathematics <i>Honors Geometry</i> or <i>Honors Algebra 2</i> or <i>Honors Precalculus</i> or <i>AP Calculus AB</i>	Mathematics <i>Honors Algebra 2</i> or <i>Honors Precalculus</i> Or <i>Calculus with Applications</i> or <i>AP Calculus AB/BC</i>	Mathematics <i>IB Math Studies</i> Or <i>AP Calculus AB/BC & IB Math SL**</i> or <i>AP Calculus AB/BC & IB Math SL**</i> or <i>Multivariable Calculus & IB Math SL**</i>
Social Studies <i>Honors U.S. History</i> Or <i>AP U.S. History</i>	Social Studies <i>Honors/AP National, State, & Local Government</i>	Social Studies <i>IB History 1</i> <i>AP World History*</i>	Social Studies <i>IB History 2</i>
Science <i>Honors Biology</i>	Science <i>Honors Chemistry</i> Or <i>Honors Physics (Alg 2 or Higher Co-Requirement)</i>	Science <i>IB Environmental Systems & Science</i> <i>IB Physics 1</i> or <i>IB Chemistry</i> Or <i>IB Biology 1</i>	Science <i>IB Chemistry</i> or <i>IB Physics 2</i> or <i>IB Biology 2</i> Or <i>IB Environmental Science & Systems</i>
World Languages <i>Honors French 2/3</i> or <i>Honors Spanish 2/3</i>	World Languages <i>Honors/AP French 3H/4H/5</i> or <i>Honors/AP Spanish 3H/4H/5</i>	World Languages <i>IB French 5/6</i> or <i>IB Spanish 5/6</i> or <i>Ab initio Level 1/2</i>	World Languages <i>IB French 6/7</i> or <i>IB Spanish 6/7</i> or <i>Ab initio Level 2/3</i>
Elective Course Work <i>Fine Arts Course</i>	Elective Course Work <i>Technology Course</i>	Theory of Knowledge and Extended Essay	Theory of Knowledge & Elective Course Work
Physical Education	Health	IB Course Work or Elective Course	IB Course Work or Elective Course

*Students must take Environmental Science and Systems as Group 3 subject

**Any student taking any Calculus class their senior year must add the 1 semester IB Math SL course

