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In
Southside High School
IB Mathematics SL 1 and 2
 Syllabus 2025 - 2026

Instructor(s)' Schedule:

Class Period	Time	1st Semester	2nd Semester
1st Period	8:45-10:18	Planning	Planning
2nd Period	10:20-11:55	Pre-Calculus CP	Pre-Calculus H
3rd Period	12:00-2:10 (Lunch included)	Pre-Calculus H	Pre-Calculus CP
4th Period	2:15-3:45	Math SL 1 and 2(A/B) HL 2	Math SL 1 and 2(A/B) HL 2

COURSE DESCRIPTION:

IB Math Studies SL is a standard level IB course that surveys a wide range of topics. In addition to the units listed in the course outline, students will complete an IB Internal Assessment Project. The Project is an application of the mathematics studied in the course. Students will take the IB External Assessment battery of tests at the end of year two to accumulate points for the IB Diploma or Certificate.

TEXTBOOK(S): Mathematics Core Topics 1 and Mathematics Applications and Interpretation SL 2 (Michael Haese, Mark Humphries, Chris Sangwin, and Ngoc Vo) and other supplementary materials

INSTRUCTIONAL PHILOSOPHY: The Mathematics Department of Southside High School believes that all students can succeed. We follow South Carolina College- and Career-Ready Standards at every level to plan and implement lessons designed to improve mathematical skills in a logical, systematic, and sequential manner. A variety of teaching and assessment strategies are used to address multiple learning styles. We adhere to the district grading guidelines and to its scope and sequence recommendations in order to help each student realize his or her potential as a learner.

ATTENDANCE: Regular attendance is critical to academic success. Students must be present at least half of the class period to be counted present. Students who are absent from class more than 10 days will not receive credit for the course. Absences excused by a doctor, court, or school administrator, which are excused, are the only exception. Tardies to class will be dealt with accordingly:

TARDINESS TO CLASS:

Students are expected to be in the classroom before the tardy bell rings for class. Repeat offenders will be subject to the school's disciplinary guidelines:

Consequences per Semester

- 1st – 2nd Offense: Parent Contact
- 3rd Offense: Referral to Administrator, Warning, Parent Contact
- 4th Offense: 1 hour detention
- 5th Offense: 2 hour detention
- 6th Offense: OSS

MAKE-UP WORK:

Please refer to the GCSD policy and SHS Policy for make-up work based on the type of absence. This document is in the Reference Section of the google Classroom.

SHS Late Work Policy:

Minors	Major (not tests)	Tests
Late work in the minor category will be accepted until the major/summative assessment at the end of the unit, and are subject to a penalty of 15% (flat percentage TBD- greater deduction than CP/Honors)	Late work in the major category will be accepted within 3 school days of the due date, and the grade will be deducted by 15 points per day. After the 3 school days have passed, the grade becomes a zero.	Tests can be made up for full credit if made up within five days of return to school. Students must arrange a make-up test with the teacher. After the 5 school days have passed, make up tests should still be available <i>up until the grade cutoff date for the quarter as defined by the teacher</i> , but are subject to a penalty of 10% .

ASSESSMENT & GRADING POLICY: Students are encouraged to conference with the instructor at a mutually agreed upon time so they can discuss their academic strengths and needs. Assessments will be formative (evaluating academic needs) and summative (evaluating academic progress).

Major 60% (minimum 3-4): all tests are cumulative and will consist of multiple choice, free response questions, or a combination of both. The style of the test will be similar to that of AP. Major assessments will also include projects, presentations and/or written papers.

Minor 40% (minimum 12): quizzes (announced, unannounced, and cumulative), free response assignments, and any other graded assignments.

- ❖ A cumulative quiz may be given covering any material that we have discussed since the beginning of the year. You should be studying your notes daily to be prepared for these quizzes.
- ❖ Homework may be graded for accuracy or completion, students will not be told in advance. Students are expected to make every effort to complete the assessments to the best of their ability. Since this is a college level course, the student should have the maturity and logical foresight to realize that working the homework assignments is absolutely imperative in order to succeed or possibly even pass. You will have written homework most every day in addition to the homework of studying your notes daily.

Southside High School Academic Integrity

As an IB World School, Southside High School adheres to all IB requirements to prevent student academic misconduct. Southside High School expects that all students adhere to subject guidelines and submit coursework that is original and provides appropriate citations of outside sources when needed. A full discussion of the Southside High School Academic Integrity Policy can be found on the IB section of the Southside High school website.

Depending on the specific incident, course and circumstances a student found in violation of the Academic Integrity Policy may receive one or more of the following consequences: 1) zero

on the assignment, 2) disciplinary referral, 3) be recommended for removal from the IB Program.

Use of AI in the IB Classroom

The IB believes AI will become a common part of our lives much like a calculator or spell checker. To that end the IB does not ban the use of AI software. However, the IB does NOT consider any work produced, even in part, by these tools to be the student's own work. The IB expects (as does Southside High School) that any work produced by AI must clearly reference the AI software. While the use of AI is accepted by the IB, it is important to note that even when referenced appropriately large amounts of work generated via an AI Software do not meet the academic requirements associated with assignments where the intent was for students to produce their own work. It is therefore important students understand when and where to use AI in their academic pathway. These parameters may be different depending on the course or assignment.

Cell Phone Policy

Anytime direct or indirect instruction is being given by the teacher or in a group setting, devices such as cell phones, airpods, earbuds, ipads, etc... should not be visible or in use. For example, no music should be playing through the device in any way. However, when students are working individually on assignments that focus is not required to the teacher or group, teachers may offer students the privilege of using their device for music. A teacher will let you know when cell phones/devices may be used. When devices are not allowed, airpods and ear buds should not be in the ears.

Teachers may allow students to use a wired headphone in the chrome book only. You may not use bluetooth headphones during class at all. The teacher will tell you when you may use this option. This is not allowed during instructional time.

Classroom Procedures:

- Walk in class and go to your seat immediately upon entering class making sure your pencils are sharpened.
- All class assignments need to have the proper heading.
- When seated, begin the warm-up assignment.

Classroom Rules/Expectations:

- Respect the rights of students to learn and my right to teach!
- Bring all necessary materials to class and use them accordingly.
- Keep hands, feet, objects, and comments to yourself.
- Observe all rules in the student handbook.

REQUIRED MATERIALS:

- 3-ring notebook (1.5 inch is usually a good size - You may need one for each semester.)
- A small notebook for formulas
- Notebook paper
- Pencils/pen
- Graphing Calculator (TI-84 Plus or Numworks is **STRONGLY RECOMMENDED**) The list of IB approved calculators can be found in my Google Classroom Reference Documents.)

IB Stance of use of Artificial Intelligence

AI should be used as an aid and not use it to completely write your IA. If it is used for this purpose, this is considered cheating and will punished accordingly.

“The IB believes that this AI technology will become part of our everyday lives—like spell checkers, translation software and calculators. We therefore need to adapt and transform our educational programmes and assessment practices so that students can use these new AI tools **ethically and effectively**. The IB is not going to ban the use of such software but will work with schools to help them support their students on how to use these tools ethically in line with our principles of academic integrity.”

Topics covered in both years:

All topics are taught in some level both years except Calculus. Calculus is only taught in year 2.

Syllabus component	Suggested teaching hours—SL	Suggested teaching hours—HL
Topic 1—Number and algebra	16	29
Topic 2—Functions	31	42
Topic 3—Geometry and trigonometry	18	46
Topic 4—Statistics and probability	36	52
Topic 5—Calculus	19	41
The “toolkit” and Mathematical exploration Investigative, problem-solving and modelling skills development leading to an individual exploration. The exploration is a piece of written work that involves investigating an area of mathematics.	30	30
Total teaching hours	150	240

Testing Schedule:

Based on the information provided in the syllabus, here is a reasonable testing schedule for the IB Mathematics SL 1 and 2 courses:

IB Mathematics SL 1 Testing Schedule:

Unit 1 - August 24, 2025

Unit 2 - September 20, 2025

Unit 3 - October 25, 2025

Unit 4 - November 22, 2025

Unit 5 - January 10, 2026

Unit 6 - February 14, 2026

Unit 7 - March 21, 2026

Unit 8 - April 25, 2026

IB Mathematics SL 2 Testing Schedule:

Summer Test - August 20, 2025

Unit 5 - September 5, 2025

Unit 6 - October 10, 2025

Unit 7 - November 14, 2025

Unit 8 - December 19, 2025

Calculus - January 30, 2026

Internal Assessment - March 14, 2026

Review/Exam Preparation - April-May 2026

This schedule allows for approximately 4-6 weeks of instruction per unit, with some additional time for the Calculus unit and the Internal Assessment in the second year. The timing aligns with the information provided in the syllabus.

This year we will be doing a little different process. So, with that being said, the schedule will be changing for SL2 and HL2. SL1 will still have a traditional method of instruction.

	Minor Grades	Major Grades	Tests	Master/Corrections
IB	Accepted within 3 school days of the due date with a 10- point deduction per day. After the 3 school days have passed, the grade becomes a zero.	Accepted within 5 school days of the due date with a 10-point deduction per day. After 5 school days have passed, the grade becomes a zero.	Made up for full credit, subject to an alternative test, if made up within 5 days of return to school. Students must arrange a make-up test with the teacher. After the 5 school days have passed, make up tests are subject to a 25% deduction. No make up tests will be given after 10 school days following the students return to school.	Test corrections will be recorded as a minor grade. When assignments are ones that follow a specific progression (step 1, step 2, etc.), the teacher may replace the score for assignment 1 with the higher score from assignment 2, since assignment 2 would be an extension of assignment 1. That is at teacher discretion.