



**Thornton High School**  
 9351 North Washington • Thornton, CO 80229  
 Office: (720) 972-4800 • Fax: (720) 972-4999  
<http://www.thorntonh.adams12.org>

<b>School Year</b>	2017-2018	<b>Teacher Name</b>	Shawna Randle
<b>Office</b>	Room 509	<b>Website</b>	<a href="http://www.thorntonhadams12.org">http://www.thorntonhadams12.org</a>
<b>Phone</b>	720-972-4862	<b>OFF Hours:</b>	1 <sup>st</sup> & 6 <sup>th</sup>
<b>Email Address</b>	<a href="mailto:shawna.randle@adams12.org">shawna.randle@adams12.org</a>		

Course Name		IB Studies 12 – 2195 Credit: 1 Level: 3 Grades: 11,12	
<b>Course Description</b>		<p>IB Mathematical Studies courses prepare students to take the International Baccalaureate Mathematical Studies exam at the Standard or Higher level. Intended to provide students with the skills to cope with the mathematical demands of a technological society, course topics include linear, quadratic, and exponential functions, solutions, and graphs; skills in computation, estimation, and development of algorithms; data analysis, including collection, calculation, and presentation of statistics; set operations and logic; business techniques, including progressions and linear programming; and geometry and trigonometry.</p> <p><b>NOTE:</b> All students enrolled in this course are required to take the corresponding AP/IB exam in May. If you do not take the exam, your score in this course will be <b>unweighted</b> and will impact your GPA. IB exams are non-refundable and after they are ordered, you will be billed for the exam for this class regardless of whether or not you sit for the exam.</p>	
Unit of Study	Grade Level Expectations/Content Standards	Approximate Time Spent or Percent of time Spent	Targeted Date of Assessment
CH 9: Logic	Topic 3: Basic concepts of symbolic logic; Definition and symbolic notation of a proposition; Compound statements; Translation between verbal statements and symbolic form; Truth tables; Converse, inverse & contrapositive; Logical equivalence; Testing the validity of simple statements	6 weeks	September 29 <sup>th</sup>
CH 2: Descriptive Statistics	Topic 4: Classification of data, simple discrete data, grouped discrete or continuous data, measures of central tendency, cumulative frequency curves, box and whisker graphs, measures of dispersion	5 weeks	November 3 <sup>rd</sup>
CH 5: Statistical Applications	Topic 4: The normal distribution, correlation, the regression line, the chi-squared test	4 weeks	December 8 <sup>th</sup>
CH 6: Introducing Differential Calculus	Topic 7: Introduction to differentiation, the gradient function, calculating the gradient of a curve at a given point, the tangent and the normal to a curve, rates of change, local maximum and minimum points, modeling	5 weeks	February 9 <sup>th</sup>
Ch 1: Number & Algebra	Topic 1: Number sets, approximation and error, standard form, SI units of measurement and conversions	2 weeks	February 23 <sup>rd</sup>
Project	Individual project to be worked on by students	4 weeks	Jan 9-Feb 15 <sup>th</sup>
IB exam preparation	Review of all topics in mixed format in preparation for the IB exam	7 weeks	Feb 15 <sup>th</sup> – Apr 27 <sup>th</sup>

Grading Scale		Grade Percentages/Weights		On group projects, students will receive a grade for individual work and a group grade	
<b>A</b>	90-100	<b>Summative Assessments &amp; Projects</b>	<b>80%</b>		
<b>B</b>	80-89			<b>Individual Grade</b>	80%
<b>C</b>	70-79	<b>Formative Assessments &amp; Projects</b>	<b>20%</b>	<b>Group Grade</b>	20%



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<b>D</b>	60-69	*Weekly progress grades are posted at <a href="https://ic.adams12.org/campus/portal/adams12.isp">https://ic.adams12.org/campus/portal/adams12.isp</a>	Grades are based on achievement of Content Standards and Grade Level Expectations.
<b>F</b>	59 or below		

### Class Expectations

**Missing or incomplete assignments/assessments for this course:** Superintendent Policies 6280 Homework and 6281 Make-Up Work, will be followed for this course.

<u>Non-Negotiables</u>	<u>Supplies:</u>	<u>Optional Supplies</u>
<ol style="list-style-type: none"> <li>Fill out a tardy form</li> <li>IDs must be worn in clear view above the waist</li> <li>No cell phones/electronic devices without permission</li> <li>"Spill proof" drinks are allowed, but no food</li> <li>No saying "NO"</li> </ol>	<ol style="list-style-type: none"> <li>3 ring binder (1")</li> <li>Dividers</li> <li>Notebook paper or Graph paper</li> <li>Blue or black pen</li> </ol>	<ol style="list-style-type: none"> <li>TI – 83 plus graphing calculator</li> <li>Flash drive</li> <li>Mini-binder (see teacher)</li> </ol>

### Student Expectations

#### Behavior Policy

- Each student is expected to behave **appropriately and respectfully** to the teacher and towards other students
- Each student is expected to **comply with "reasonable requests"**
- Each student is expected to **come to class prepared and on time**

#### Tardy Policy

- A **Tardy Form** can be found in a folder posted outside the classroom. If the door is locked, please knock & wait quietly for the door to be opened. Once the door has been opened, please enter class in an **appropriate manner**, so as not to further disrupt the instruction, and **fill out the form completely** (name, date, time of arrival, and reason). If you have a pass, please state so on the form & staple it to the Tardy Form.
- THS Tardy Policy is as follows (per QUARTER):
  - **1<sup>st</sup> – 3<sup>rd</sup> tardy** = fill out a **Tardy Form**, student is reminded of expectations & future consequences
  - **4<sup>th</sup>-5<sup>th</sup> tardy** = fill out a **Tardy Form**, receive **student generated/teacher approved consequence, parent phone call**
  - **6<sup>th</sup> + tardy** = fill out a **Tardy Form**, teacher completes an Incident Report Form (**office referral**)
- We expect all students to have their ID's on their person at all times during the school day.
- If a student does not have their ID, a new one will be issued & either delivered or retrieved from the Attendance Office at the student's expense

#### Cell Phone/Music Policy

- Students will be given **one verbal warning** at the start of class each day to turn off & put away their phones/music
- You may only listen to music at the teacher's discretion & with their verbal permission.
- Any phones/ music **out after the 1<sup>st</sup> warning will be taken & Superintendent's Policy will be followed:**
  - **1<sup>st</sup> offense:** The device should be confiscated and the parent should be notified. The device may be released to the STUDENT after the student reviews and signs the policy.
  - **2<sup>nd</sup> offense:** The device should be confiscated and the parent should be notified. The device may be released ONLY to the PARENT after the parent reviews and signs the policy.
  - **3<sup>rd</sup> or more:** Such offenses are considered disruptive behavior and should result in a minimum of one day suspension to be served in or out of school at the discretion of administration. Subsequent violations may result in increasing suspensions of up to three (3) days.
- The phone **can be retrieved at the end of the school day, either from the teacher or in the Attendance Office.** If the student wishes to have it returned to them earlier, they must speak with their dean.

### General Expectations

- Grades are based upon the demonstration of proficiency on units associated with a standard given during each formative or summative assessment. Formative grades in addition to summative unit assessments will be used to holistically determine your grade.
- On group projects, students will receive a grade for individual work and a group grade.
- Grades are based on achievement of Content Standards and Grade Level Expectations.
- Assessments will be graded based on teacher/district/state rubrics.
- Formative: 20%** Formative assessments measure the scaffolding skills and/or content embedded in the unit. Formative assessments are taken frequently, after a student has practiced a skill or become familiar with content. Examples of formative assessments include but are not limited to exit tickets, paragraphs, oral check for understanding, warm-ups, stages in a large project, etc.
- Summative: 80%** Summative measures of achievement are taken when unit master is expected. (i.e., unit tests, culmination of a project, embedded assessments, etc.)
  - If no attempt to take a summative assessment has been made, a "no evidence" (NE) grade will be recorded until the assessment is completed. NE shall be defined as not attempting the assessment or not being present for the assessment. **NE will be equal to 0%.**



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- In order to receive a passing grade, a student must **attempt ALL summative assessments**.
- The presence of a NE grade for any summative assessment at the end of a grading period will result in a grade of F for the course, regardless of performance on other assessments.

### Homework Policy

- Typically, homework/extra practice problems will be assigned each day (Monday – Friday), except on days of a Summative Assessment or on specific days as agreed upon by the IB departments.
- The expectation is that these assigned problems will **at least be attempted before the next scheduled class day**, so that students are able to ask questions & contribute to classroom discussions.
- Therefore, students **should NOT be spending more than 30 – 60 minutes per night** on any assigned homework, depending on the level of difficulty, which will gradually increase throughout the course of the school year.
- While the homework does not receive a completion grade, students **will be given a Formative Assessment on a random sample of some of those assigned problems at a later date** (within 2-7 days after it was assigned).

### Grading Policy

- According to District Policy, **students will no longer receive below a 50% on any “good faith” attempt** for work on Formative and Summative Assessments. Students who score below a 50% will receive a “BF” or “Below Fifty” mark, which translates to a 50% in the gradebook.
- However, on **Summative Assessments ONLY**, if a student is absent, did not make a “good faith” attempt or did not show enough evidence of learning the objectives, the student **may receive a “NE” or “No Evidence” mark**, which translates to a **0% in the gradebook**.
- This is how marks will appear in the gradebook:
  - BF = student scored below a 50% & the actual score will be noted in the comments  
(used on **BOTH** Formative & Summative Assessments)
  - NE (0%) = absent/did not attempt/not enough evidence of learning  
(used on **BOTH** Formative & Summative Assessments)

### Re-Take Policy

- First and second **semester final exams ARE NOT** eligible for a retake.
- A student is allowed to **retake any Summative Assessment** up to ten (school) days after the original Summative Assessment has been graded and communicated to the student. After the ten days, the eligibility for the retake will expire unless prior arrangements have been made and approved by the teacher.
- All **retakes** will be for **full credit**.
- In order to **retake a summative assessment, students must show a reasonable body of evidence of learning** (to be determined by the teacher). Some examples of this could be a study session with the teacher, re-doing formative assessments, extra practice outside of class, etc. This process must be completed within the existing 10 day THS Retake Policy.

### Student and Teacher Responsibilities with Regards to Summative Assessments

- **Teachers will be responsible** for communicating NE grades to students. Some examples of this include (but are not limited to): having the student take the NE assessment the next time they are in class; calling home to communicate the NE assessment to parents; having a student make up the NE assessment during a specific off hour, extensions period or lunch, etc.
- If a student is going to fail a semester because of a NE, the **teacher must call home to communicate with the parents** (as per Superintendent policy). This must be done in such a way that it gives students enough time to make up the NE assessment.
- It is the **responsibility of both the teacher and student** to discuss and determine a mutually agreed upon time frame for when the student can make up the NE assessment. If the student fails to meet the given deadline, documentation must be provided in PLP.
- It is the **responsibility of the student** to make up any NE assessments as soon as possible in order to protect his or her eligibility and his/her GPA.
- If a student receives an NE on a final or semester exam, it is the **student’s responsibility** to provide documentation and to make arrangements with administration to take the missed assessment(s).
- Summative assessments must be taken within a reasonable amount of time after they are first given unless otherwise arranged with the teacher. It is the student’s responsibility to know when assessments are given and schedule a time to make them up or retake them.