

Dr. John Hugh Gillis Regional High School

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High School Credit System

The High School credit system begins at the Grade 10 level

High School course choices begin in Grade 10



GRADUATION REQUIREMENTS

- ❑ 18 Credits are required to graduate
- ❑ 14 of these credits are MANDATORY
 - > 3 English Credits
 - > **3 MATH Credits (new for 2017-18)**
 - > 1 Canadian Studies
 - > 2 Science Credits
 - > 2 additional Math, or Science or Tech Credits
 - > 1 Global Studies
 - > 1 Fine Arts
 - > 1 Physical Education



Course Levels:

There are several levels of courses available to students

- Open
- Graduation (GRAD)
- Academic (ACA)
- Advanced (ADV)
- Pre-Diploma (PIB)
- International Baccalaureate (IB)



High School Pathways

There are several levels of paths available to High School students:

- ❑ Academic 10-12 – Courses can include Advanced, Academic, Open and GRAD
- ❑ French Immersion 10-12
- ❑ IB 11-12(Pre-IB 10)
- ❑ Options & Opportunities 10-12
- ❑ Skilled Trades 10-12

GRADE 10 ACADEMIC

Course Selection



All students entering regular Grade 10 program usually select the following:

- English 10
- Science 10
- Physical Education 10
- Math 10 (Now 2 Credits) OR Math at Work 10, Math Essential (1 Credit)
- Art, Drama or Music
- 2 ELECTIVES IF MATH 10 was chosen above
- 3 ELECTIVES IF MATH at Work 10 or MATH Essentials was chosen



High School Courses

Dr. JH Gillis Regional High School offers a variety of courses across all disciplines.

The following is a brief summary of courses by subject area.

More detailed information on courses is available in the program of studies.



High School English

- ❑ All students must successfully complete English at each grade level
- ❑ There are several levels of English courses available



Academic/Advanced English/IB

- These English courses are designed to prepare students for university
- English 10
- IB and Advanced English are only available in grades 11 and 12



Communications English

- ❑ English Communications is a general level English course which is available in grades 11 and 12 only
- ❑ This English will qualify students for most community college programs but not University

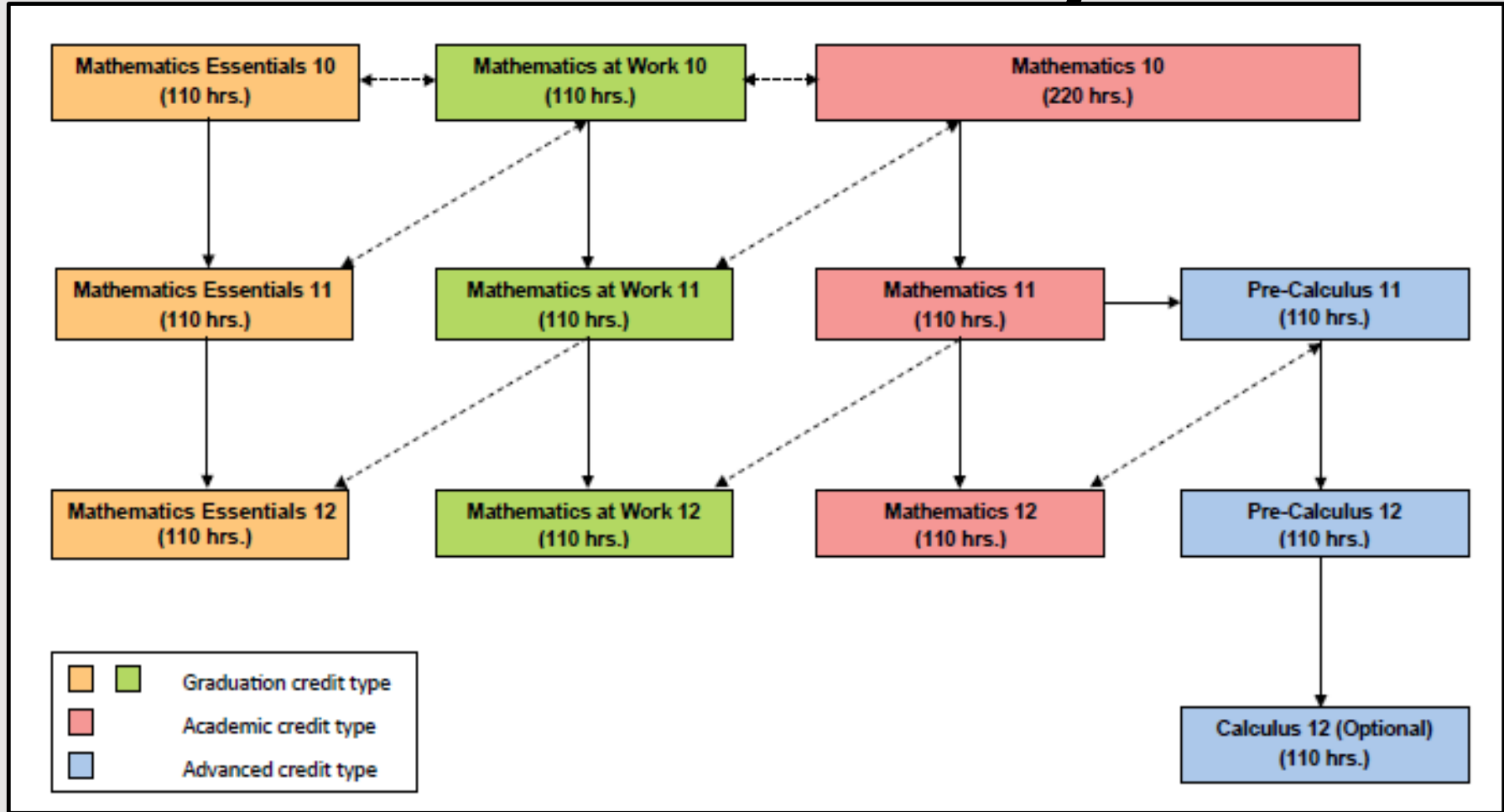


Math

Students must have a minimum of **3 Math credits**

There are several levels of Math available.

Senior High Mathematics: Common Pathways



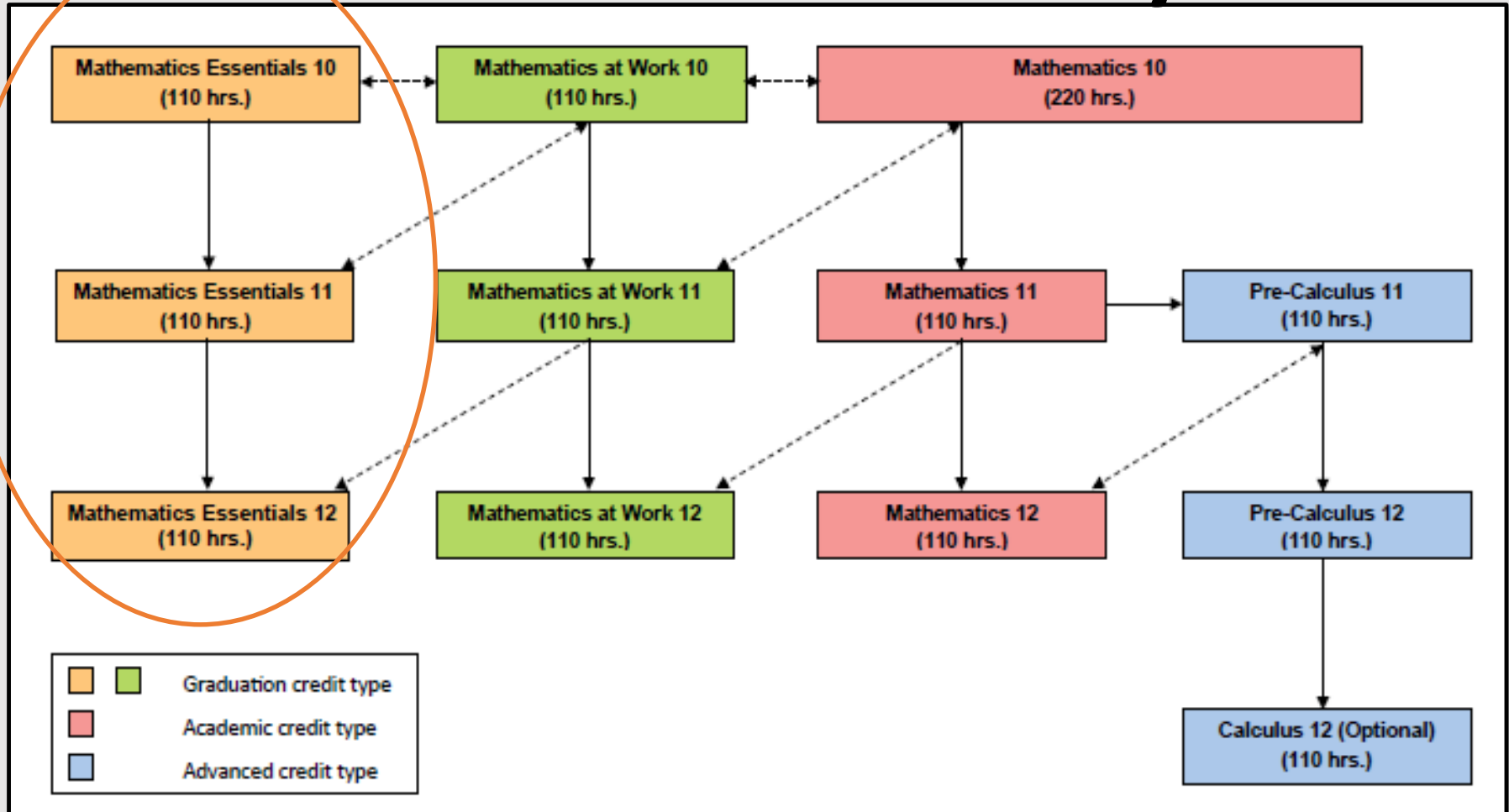
Considerations for these Pathways



- When choosing a pathway, students should consider their mathematical knowledge and background, interests, and future education and career paths.
- Post-secondary programs of study have different mathematics prerequisites and admission requirements. Students and their parents should carefully investigate these prerequisites and requirements when selecting senior high courses.



Senior High Mathematics: Common Pathways

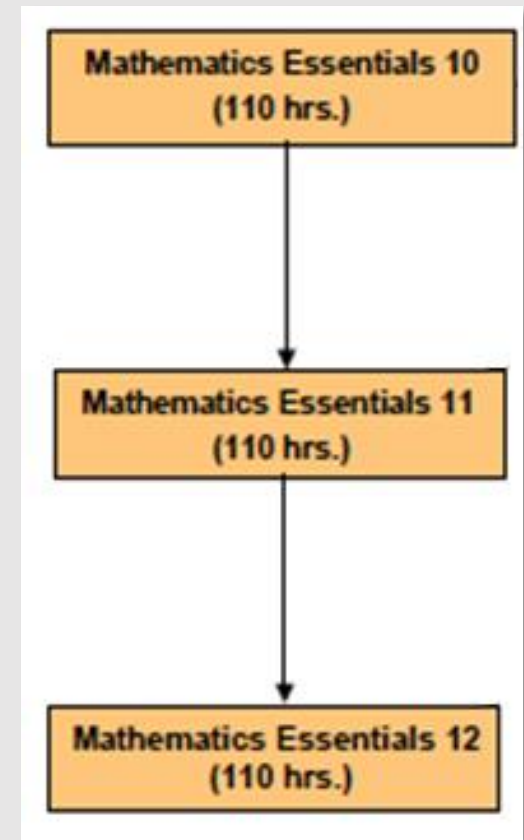


Mathematics Essentials Pathway



Mathematics Essentials courses are designed to provide students with the development of the skills and understandings required in the workplace, as well as those required for everyday life at home and in the community.

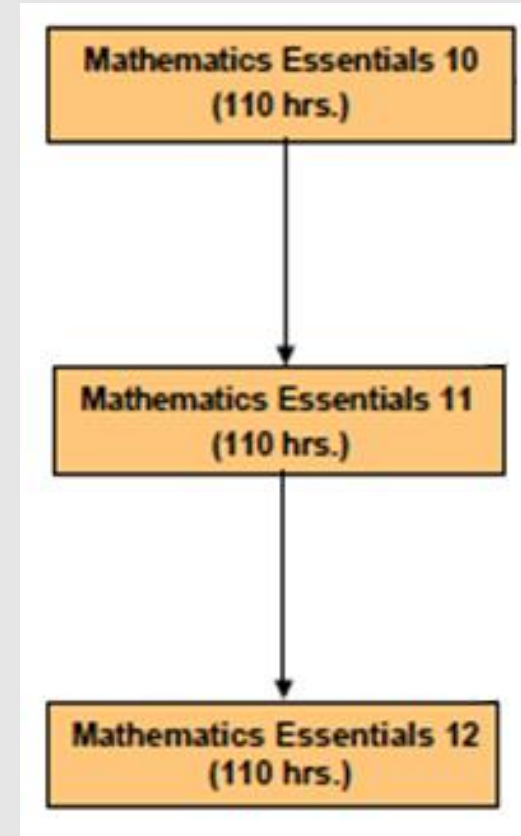
Students will become better equipped to deal with mathematics in the real world and will become more confident in their mathematical abilities.



Mathematics Essentials Pathway



The typical pathway for students who successfully complete Mathematics Essentials 10 is Mathematics Essentials 11 followed by Mathematics Essentials 12.



Mathematics Essentials 10



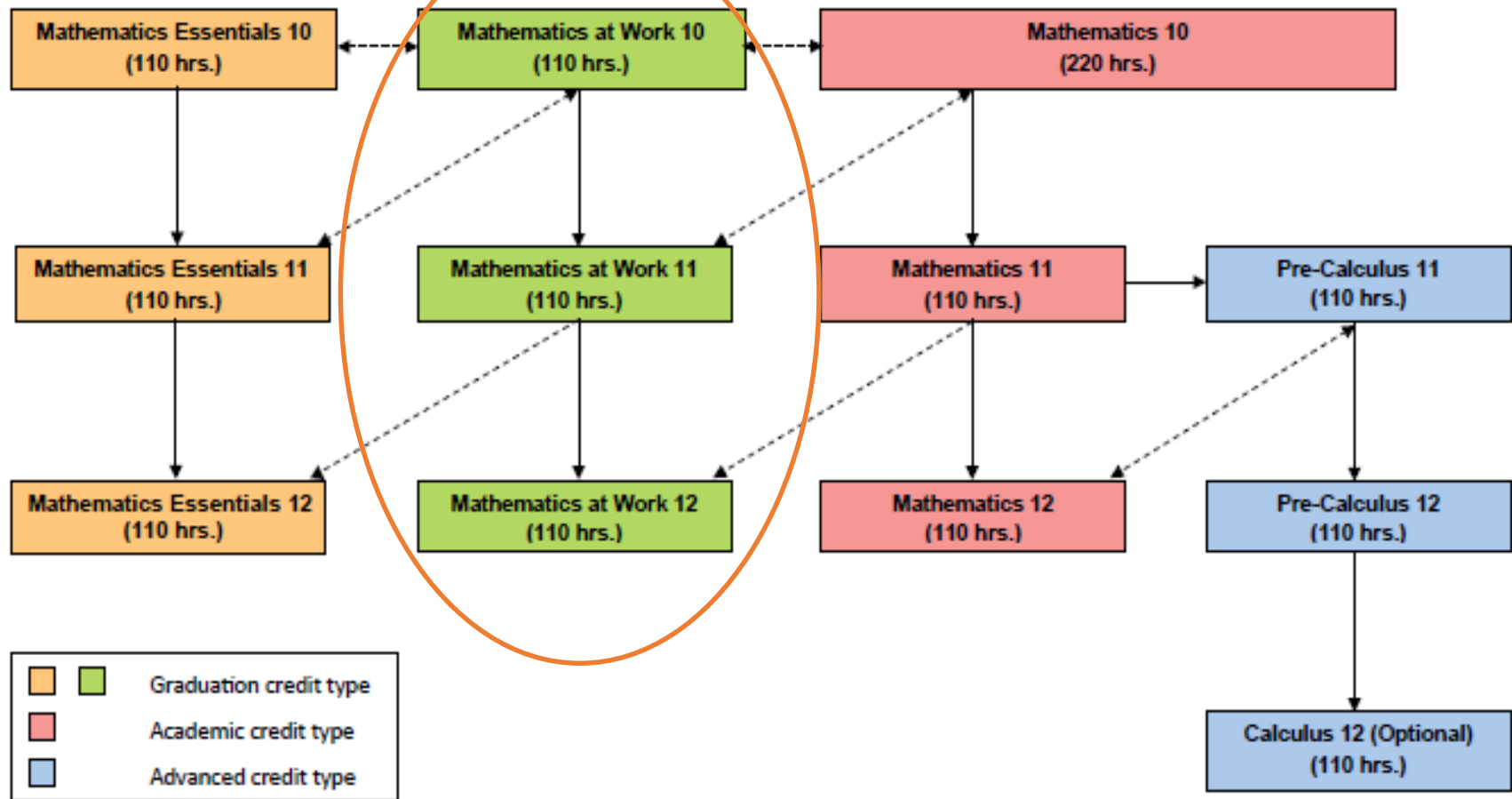
Mathematics Essentials 10 is designed to provide students with the development of the skills and understandings required in the workplace, as well as those required for everyday life at home and in the community.

- a 110 hour, graduation, 1 credit course
- designed for students who do not intend to pursue post-secondary study or who plan to enter programs that do not have any mathematics pre-requisites.

There is no provincial examination for Mathematics Essentials 10.



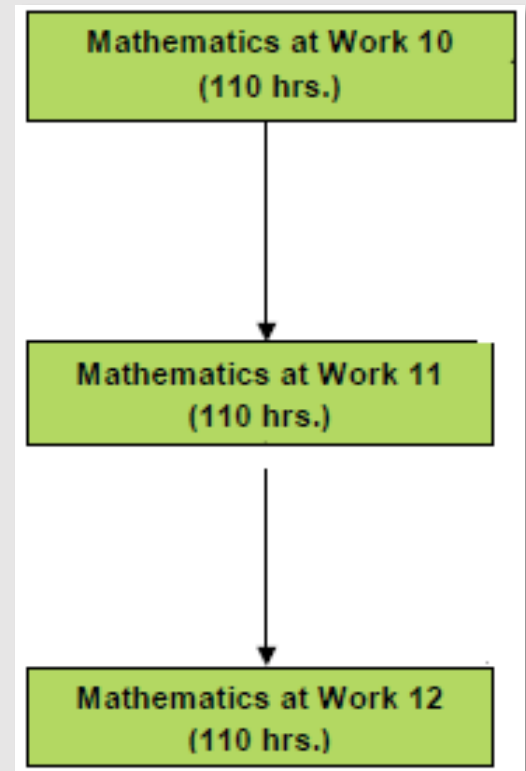
Senior High Mathematics: Common Pathways



Mathematics at Work Pathway

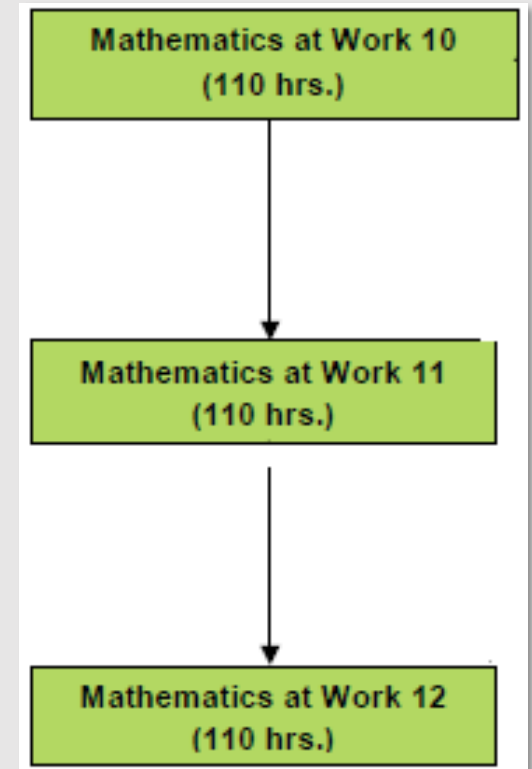
This pathway consists of three newly designed courses and replaces the Mathematics Foundations Pathway

These new courses are designed to provide students with the mathematical understandings and critical-thinking skills identified for direct entry into the work force or for entry into programs of study that do not require *academic* mathematics.



Mathematics at Work Pathway

The typical pathway for students who successfully complete Mathematics at Work 10 is Mathematics at Work 11 followed by Mathematics at Work 12.





Mathematics at Work 10

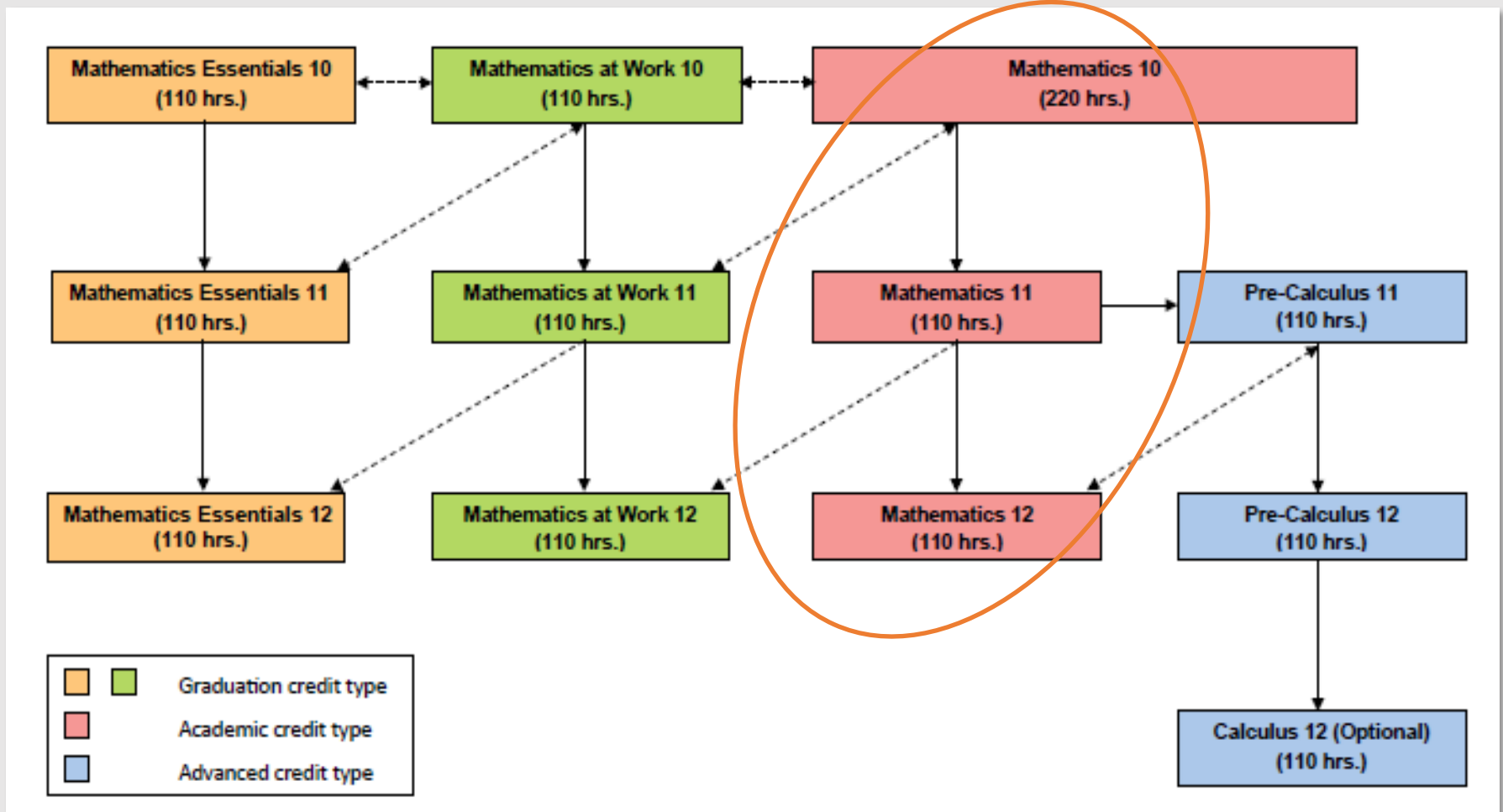
Mathematics at Work 10 is designed to provide students with the mathematical understandings and critical-thinking skills identified for direct entry into the work force or for entry into programs of study that do not require *academic* mathematics.

- a 110 hour, graduation, 1 credit course
- a high school mathematics course which demonstrates the application and importance of key math skills.

There is a provincial examination for Mathematics at Work 10. It will be written in January and June of each school year.



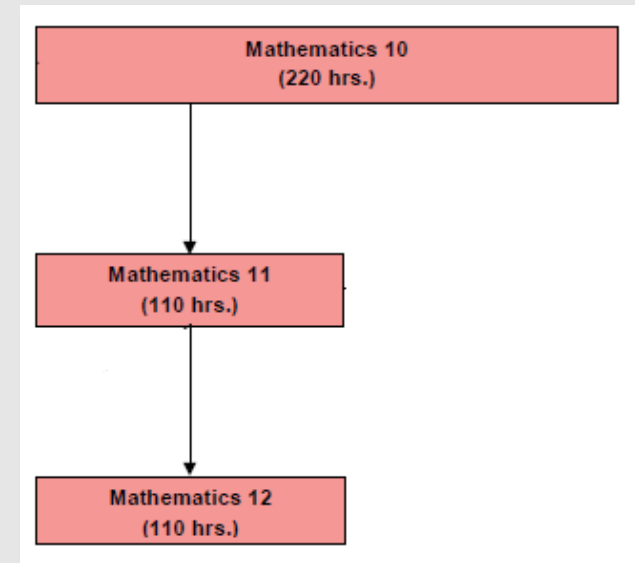
Senior High Mathematics: Common Pathways



Academic Mathematics Pathway



Courses in this pathway are designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that require an academic mathematics credit but do not require the study of theoretical calculus.

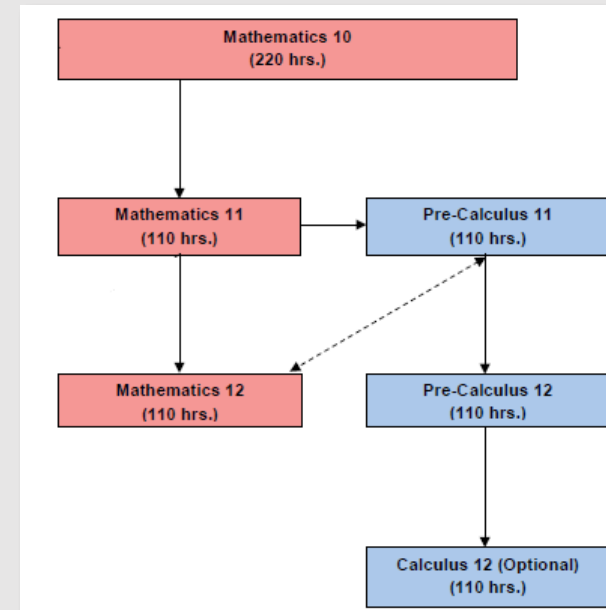


Academic Mathematics Pathway



Students who complete Mathematics 10 typically may

- complete Mathematics 11 followed by Mathematics 12, if they intend to follow the academic pathway. It will no longer be possible to take these courses out of sequence or concurrently.
- complete Mathematics 11, followed by Pre-Calculus 11, followed by Pre-Calculus 12, if they intend to follow the advanced pathway. It will no longer be possible to take these courses out of sequence or concurrently.





Mathematics 10

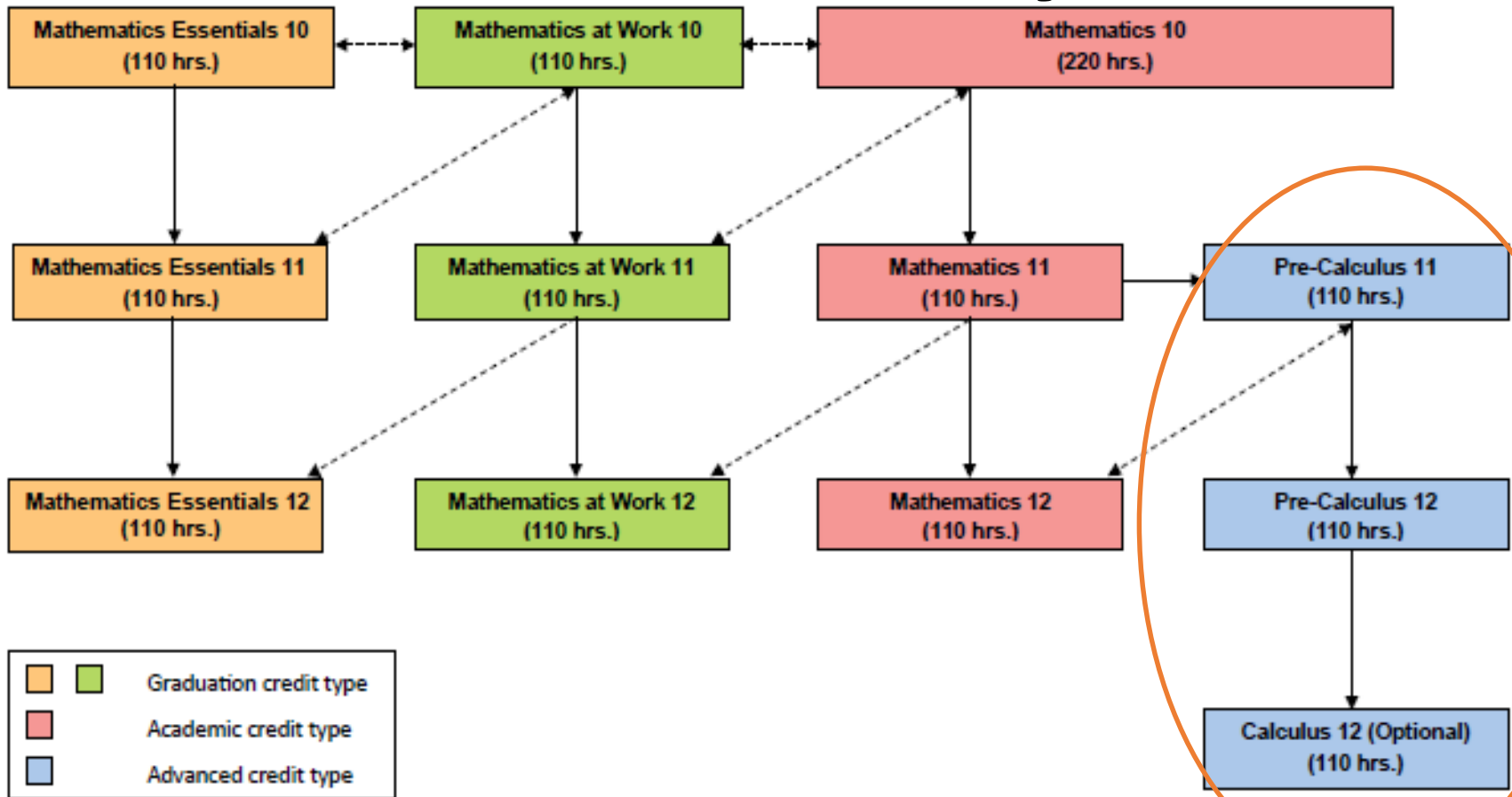
Mathematics 10 is

- a 220-hour, academic, 2-credit course. This will mean that students will have mathematics class every day for their grade 10 year.
- two Grade 10 credits awarded
 - 1 academic mathematics credit
 - 1 of the two additional credits in “science, mathematics and/or technology”
- an academic high school mathematics course which is a pre-requisite for all other academic and advanced mathematics courses.

There is a provincial examination for Mathematics 10. It will be written in June of each school year by students in Mathematics 10.



Senior High Mathematics: Common Pathways



Pre-Calculus Pathway



Courses in this pathway are designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that require the study of theoretical calculus.

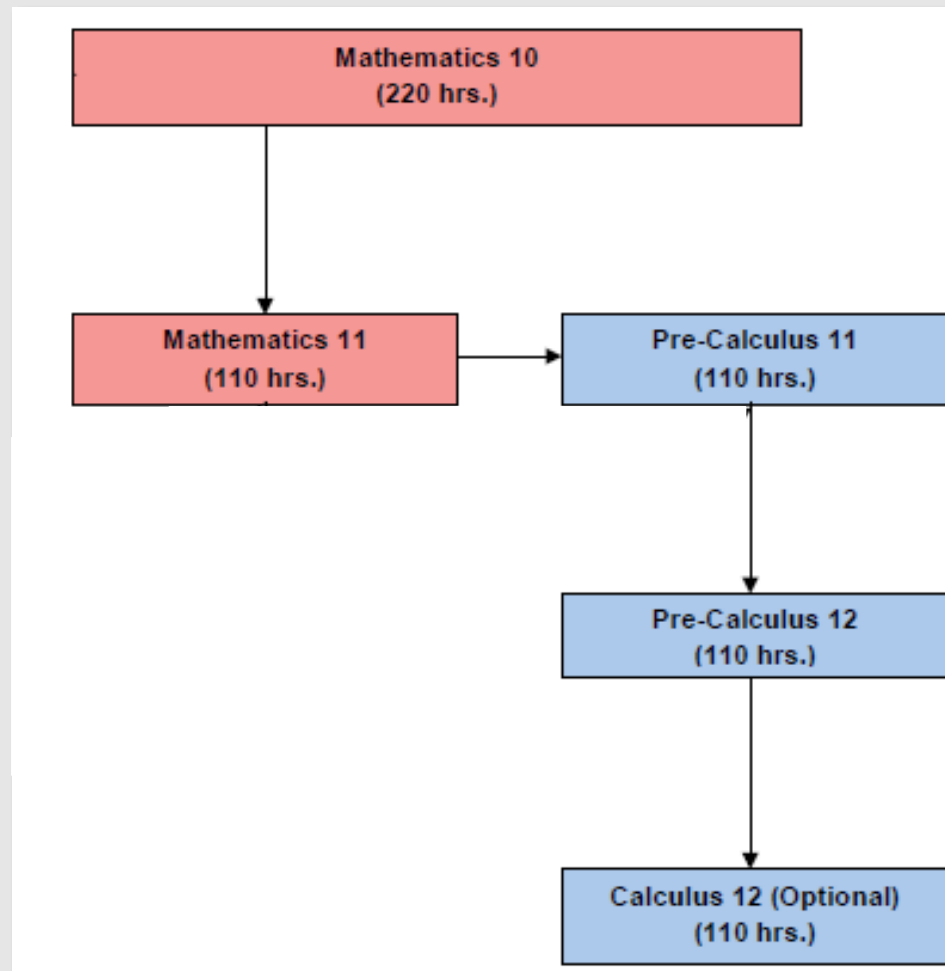
Students who follow this advanced mathematics pathway will be required to complete the 220-hour Mathematics 10 course in their grade 10 year and both Mathematics 11 and Pre-Calculus 11 in their grade 11 year.

Students will explore the following topics:

algebra and number, measurement, relations and functions, combinatorics, and introductory calculus.



Pre-Calculus Pathway





IB Math Route

- Grade 11 IB Math
- Grade 12 IB Math
- Math students are doing Calculus by October of grade 12
- **Some students will opt for Cal 12 as they have available time in their grade 12 year, but it is not necessary as Calculus is covered in IB Math (unless university in Ontario)

Selecting the Best Course

Considerations

- Mathematical knowledge and background
- Future plans
- Interest
- Learner profile
- Previous mathematics achievement

It is in the students' best interests to select courses in which they are able to be appropriately challenged and are likely to experience success.



Support for High School Course Selection

Your son or daughter's grade 9 mathematics teacher and Guidance Counsellor have information which can support your child in selecting the most appropriate course for their success.





Science Courses

- ❑ All students are required to complete two science courses
- ❑ Science courses offered:
 - Science 10 or Pre-IB Science 10
 - IB Biology, Chemistry and Physics
 - ADV & ACA Biology, Chemistry, Physics
 - Oceans 11
 - Geology 12
 - Agriculture 11
 - Chimie 11 & 12 (FI)...not offered in 2017-18
 - Food Science 12



History / Global Requirements

- ❑ Students are required to complete 2 History related courses
- ❑ 1 credit must be a Canadian Studies credit which is completed in Grade 10 or 11 from **Canadian History 11** or **Gaelic Studies 11**
- ❑ The second History credit is taken in Grade 12 from either **Global Geography 12** or **Global History 12**



Physical Education Requirements

- ❑ All students are required to complete a Physical Education courses
- ❑ Physical Education courses include:
 - Physical Education 10,11,12
 - Fitness Leadership 11
 - Yoga 11
 - Girls only Physical Education 11/12



Electives

- 4 additional courses are needed in order to graduate
- Options available in Sciences, Arts, Humanities (Law, Economics, Sociology), Food Studies, Child Studies, Hospitality, Technology, Languages,
- Check the program of studies to see the courses available in grade 10,11,12



French Immersion Requirements

- ❑ A minimum of 9 French Language Credits must be obtained.
- ❑ Of the 9 required, FRANCAIS 10, 11, 12 **MUST** be passed.

French Immersion Course Selection



- English 10
- Math 10, Math at Work 10 OR Math Essentials
- Art Dramatique 10 IMM, Art 10, OR MUSIC 10
- Sciences 10 (FI)
- Histoire 10 (FI)
- Français 10 (FI)
- Physical Education 10
- 1 OR 2 Elective(s) depending on the MATH choice above.



French Immersion Courses

- ❑ Français 10, 11, 12
- ❑ Art Dramatique 10 IMM
- ❑ Histoire 10, Histoire Canadienne 11, Études Géographie Planétaire 12
- ❑ Sciences 10, Chimie 11, *Chimie 12
- ❑ There are also several FI courses available online
 - ❑ Chimie 12 not offered in 2017-18



Grade 10 PIB Course Selection

- French 10 PIB
- Science 10 PIB
- English 10
- Math 10
- Advanced Chemistry 11, Advanced Biology and/or
Advanced Physics 11 -- semester 2 or Art, Music
- Canadian History 11



French Immersion & PIB

- ❑ Students interested in pursuing IB in Grade 11, wishing to keep FI option open register for the following Grade 10 courses:
- ❑ English 10, Math 10 (2 credits), Français 10, His 10 (FI), Science 10(FI), Art Dramatique 10 immersion,
- ❑ Advanced Biology 11 or Advanced Physics 11 or Chimie 11



Options & Opportunities

- ❑ Any Student considering O2 must take Career Development 10 in Semester 1.
- ❑ Near the end of Semester 1 student will complete an application and be interviewed for the 20 spots available in the O2 program.
- ❑ Successful applicants will be enrolled in Community Based Learning during Semester 2.



Grade 11 and 12 O2

Grade 11

- Career Development 11
- WHS 11
- 2 Coop credits

Grade 12

- 1 or 2 coop credits



Skilled Trades

Skilled Trades 10...required for:

- Construction Trades 11
- Transportation Trades 11

IB Options

- ❑ **IB DIPLOMA** students do not need to fulfill the Nova Scotia High School requirements
- ❑ **IB CERTIFICATE** students (Students only take IB courses they wish, not entire program) – These students must meet Nova Scotia requirements.
- ❑ For more detailed information on IB, please visit the IB site found on the school's website under the guidance tab.

IB Diploma

- There are 6 groups, students take one subject from each group. Group 6 can be as an elective
- IB Core Requirements:
 - Research Essay “Extended Essay”
 - CAS – Creativity Action and Service
 - TOK – Theory of Knowledge course

IB Groupings

1. IB English – Literature study
2. IB French
3. IB History, IB Economics
4. IB Chemistry, Biology or Physics
5. IB Math “Calculus Math”
6. IB Art or IB Music
 - Or a second science

IB and French Immersion



Immersion students are able to receive an integrated French Certificate and an IB Diploma

A summary of these options is *briefly* outlined on the following site:

- ❑ <https://fsl.ednet.ns.ca/content/integrated-french-certificate-ib-diplomacertificate>
- ❑ These arrangements must be carefully planned on an individual basis with the IB Coordinator
- ❑ Lindsay.macinnis@srsb.ca



WEBSITE

- ❑ Visit the Dr. John Hugh Gillis Regional High School website <http://drjhg.srsb.ca/>
- ❑ Click on Guidance tab
<http://drjhg.srsb.ca/content/guidance-2>