

EXCELLENCE PROGRAM AT A.Y. JACKSON S. S.

Students can apply to participate in an Excellence Program at A.Y. Jackson S.S. An Excellence Program is offered in the areas of study listed below.

After being admitted to the Excellence Program, students who fulfill the necessary criteria have the opportunity to obtain an Excellence Certificate when they graduate. This certificate is a formal recognition of a student's outstanding achievement over the years in her/his involvement at A.Y. Jackson S.S., as well as a reward for being an active participant in our school's community. The students are awarded their Excellence Certificates at a special ceremony during the school year.

Areas of Study:

Biology
Business/Co-op
Chemistry
Computer Science
Communication Technology
English
Mathematics
Music
Physics
Technological Design
Visual Arts

To earn an Excellence Certificate in an area of study, the student must meet the following Two Conditions:

Condition 1: All courses pertaining to the Excellence Certificate must be completed at A.Y. Jackson.

Condition 2: A student needs to fulfill the enrichment criteria in only one of the areas of study stated above.

A student may achieve an Excellence Certificate in more than one area of study.

EXCELLENCE PROGRAM CERTIFICATE REQUIREMENTS

BIOLOGY

Students must fulfill the following criteria:

- 1) Maintain a minimum average of 90% in grade 11 biology and grade 12 biology
- 2) Fulfill any **two** of the following requirements in their grade 10 to grade 12 year:
 - a) Participate in the National Biology Competition
 - b) Score in the top 80th percentile in the National Biology Competition
 - c) Produce a science fair experiment/innovation rated in the top ten at school, in order to run in the Toronto Science Fair
 - d) Participate in an outreach research-based project/program
 - e) Be an active science tutor for at least one semester
 - f) Be an active member of the Biology Club by attending regular meetings and/or coordinating the weekly Bio Club activities
 - g) Take on an executive/leadership role in HOSA or received a placement for further competition
 - h) Take on an executive/leadership role in STEM Club (can only be used for one application: Biology, Chemistry or Physics)
 - i) Take on an executive/leadership role in Science Olympics (can only be used for one application: Biology, Chemistry or Physics)
 - j) Take on an executive/leadership role in Biotech SHSM (can only be used for one application: Biology, Chemistry or Physics)

BUSINESS/CO-OP

Students must fulfill the following criteria:

- 1) Achieve above 90% and above in at least three business courses in grade 11 and 12. Only one grade 11 mark can be used.
- 2) Students must fulfill any two of the following requirements:
 - a) Successfully complete the AP course offered by the Business Department and achieve an average of at 90% or above
 - b) Be an active executive of Business Council, DECA, SHSM or Junior Achievement by attending regular meetings and coordinating weekly activities
 - c) Participate in at least three of the competitions or conferences put on by business Council and/or DECA
 - d) Reach the internationals in DECA or win other business awards in Junior Achievement or other Business conferences.

CHEMISTRY

Students must fulfill the following criteria in their grade 10 to grade 12 year:

- 1) Maintain a minimum average of 90% in grade 11 and grade 12 Chemistry
- 2) Students must fulfill **two** of the following requirements:
 - a) Participate in Laureate Essay Competition Event
 - b) Participate in the Avogadro's Contest
 - c) Participate in the Chemistry 13 Contest
 - d) Participate in the Chemistry Olympiad
 - e) Score in the top 80th percentile in Avogadro's Contest
 - f) Score in the top 80th percentile in Chemistry 13
 - g) Take on an executive/leadership role in the Chemistry club
 - h) Be an active Chemistry peer tutor for one semester
 - i) Take on an executive/leadership role in STEM Club (can only be used for one application: Biology, Chemistry or Physics)
 - j) Take on an executive/leadership role in Science Olympics (can only be used for one application: Biology, Chemistry or Physics)
 - k) Take on an executive/leadership role in Biotech SHSM (can only be used for one application: Biology, Chemistry or Physics)

COMPUTER SCIENCE

Students must fulfill the following criteria:

- 1) Successfully complete ICS2O, ICS3U and ICS4U and achieve a minimum of 90% in each of the grade 11 (3U) and grade 12 (4U) courses
- 2) Participate in the University of Waterloo Canadian Computing Competition (CCC) in grade 11 and in grade 12, achieve a Certificate of Distinction (top 25%) result in the senior division of CCC or reach the regional final at the ECOO Programming Contest
- 3) Be an active member of the programming club by:
 - a) Attending meetings regularly
 - b) Participating in the Tech Day and Curriculum Nights – create and facilitate activities for incoming students
 - c) Grade 12 – planning and running training sessions for junior members, or tutoring students with difficulty in CS courses

COMMUNICATION TECHNOLOGY

Students must fulfill the following criteria:

- 1) Successfully complete TGJ2O plus TGJ3M and TGJ4M or TGG3M and TGG4M (Yearbook Production) and achieve a minimum of 95% in each of the grade 11 (3M) and grade 12 (4M) courses
- 2) Be part of the Yearbook Executive Committee in grade 11 or grade 12
- 3) Be part of the team which maintains and updates the school and department TV display screens
- 4) Participate in both the Tech Day and Curriculum Nights. Students will be expected to create activities and presentations for the incoming students and facilitate them.

ENGLISH

Students must fulfill all of the following criteria:

- 1) Maintain a mark of at least 85% in grade 11 and grade 12 English (ENG3U & ENG4U)
- 2) Successfully complete Writer's Craft and achieve a mark of 90% or higher
- 3) Participate in the school's Book Club for at least one year

MATHEMATICS

Students must fulfill all of the following criteria:

- 1) Complete successfully all the following grade 12 Mathematics courses offered: MDM4U, MHF4U and MCV4U and achieve a minimum of 90% and above in all their grade 11 and 12 math courses
- 2) Successfully complete at least 2 of the following 4 enriched or AP courses offered by the Mathematics department: MPM2D3, MCR3U3, MHF4U0, MCV4U0 with an average of at least 90%

- 3) Achieve a placement of Top 25% in Canada in at least 2 of the Mathematics Contests at any level (in grade 10, 11 or 12)
- 4) Be an active member of the Math Club participating to meetings on a regular basis for at least one school year

MUSIC

Students must fulfill the following criteria to achieve an excellence award in Music:

- 1) Achieve a minimum of 95% in their grade 12 Music course
- 2) Students must fulfill TWO of the following requirements:
 - a. Achievement of Excellence in the Music Awards
 - b. Hold an executive position on the Music Council
 - c. Direct a teacher approved ensemble that rehearses on a weekly basis
 - d. Successfully direct sectionals for a teacher led ensemble on a bi-weekly basis for a full year
 - e. Perform a major solo in a teacher led music ensemble

PHYSICS

Students must fulfill the following criteria:

- 1) Maintain an average mark 90% and above in grade 11 and grade 12 Physics courses
- 2) Students must fulfill **two** of the following requirements in their grade 10 to 12 year:
 - a) Complete SPH3U3 with a 90% and above in the Course.
 - b) Complete SPH4U0 with a 90% and above in the Course
 - c) Participate in three of the four Physics Competitions: OAPT, SIN, AAPT and CAP and earn a mark of 80% or above in at least two of these competitions.
 - d) Be actively and consistently involved in the Physics Club (including tutoring)
 - e) Take on an executive/leadership role in STEM Club (can only be used for one application: Biology, Chemistry or Physics)
 - f) Take on an executive/leadership role in Science Olympics (can only be used for one application: Biology, Chemistry or Physics)
 - g) Take on an executive/leadership role in Biotech SHSM (can only be used for one application: Biology, Chemistry or Physics)

TECHNOLOGICAL DESIGN

Students must fulfill the following criteria:

- 1) Successfully complete TDJ2O, TDJ3M and TDJ4M and achieve a minimum of 95% in each of the grade 11 (3M) and grade 12 (4M) courses
- 2) Participate in the Skills Canada Ontario competition in either Grade 11 or Grade 12. Students can compete in either the Architectural Design or Mechanical CADD competition
- 3) Participate in both the Tech Day and Curriculum Nights. They will be expected to create activities and presentations for the incoming students and facilitate them.

VISUAL ARTS

Students must fulfill the following criteria:

- 1) Maintain an average mark of 90% and above in two grade 12 and two grade 11 visual arts courses
- 2) Students must fulfill one of the following requirements:
 - a) Hold an executive position in the visual arts council for at least one year
 - b) Be recognized and participate in out of school visual arts event/exhibition
 - c) Had work reproduced and featured in the Pillar Gallery and/or the A.Y. Jackson Art Show