

Science Co-op

This intensive program provides a focused learning environment for students who have a keen interest and academic ability in Science. Students will remain with one teacher all day. The science courses included in this co-op are Anatomy & Physiology 12 (formerly Biology 12), Chemistry 11 and Physics 11. In addition to the three academic science courses, students will be placed on a work experience of approximately three weeks. Students will receive Work Experience 12A, a 4 credit course. Embedded in the co-op is the Career Life Connections Course that will assist students both in preparing for their work experience placement, and also in post secondary planning and preparation. Students must apply for this program with recommendations from both their Science and Mathematics teachers.



Work Placement Examples:

- ◆ Laboratories
- ◆ Care Homes
- ◆ Coast Guard
- ◆ Veterinarian Assistant
- ◆ Optometrist Assistant
- ◆ Wild Life Reserves
- ◆ Education
- ◆ Dental/Orthodontics
- ◆ Sports Medicine
- ◆ Science World
- ◆ Pharmacy Assistant

*Please note Science based placements are based on employer participation in work experience & the student's willingness travel outside the local community. (Students are responsible for their own transportation to & from their work experience placement)



Applications:

See a Career Facilitator for an application. More information can be found at the Career Centre and on the LTS website.



Science Co-op

Lord Tweedsmuir Secondary

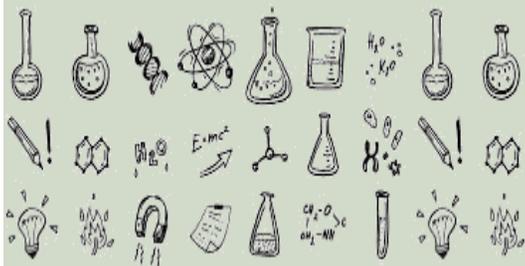
"A school within a school"

For More Information:

604-574-7407

or

www.surreyschools.ca/schools/tweeds



Additional Information

Prerequisites:

Students must be academically strong in both Science 10 and Math 10. They should have a keen interest and curiosity about science. In addition, students should be mature, problem solvers, critical thinkers, independent and hard working individuals.

Expectations:

Attendance, punctuality, work ethic, daily homework, participation and a professional attitude are required in order to be successful.

Costs:

Career Life Connections Course Fee = \$40
Some placements may require students to complete a Police Information Check and/or receive a TB Test. Thus, they may be expected to pay approximately \$45 to meet this employer requirement prior to the work experience.



Timetable Information

Semester Courses:

Physics 11	4 credits
Chemistry 11	4 credits
Anatomy & Physiology 12 (formerly Biology 12)	4 credits
Work Experience 12A	4 credits
Career Life Connections	4 credits

Semester Courses:



English 11	4 credits
A Social Studies 11	4 credits
Math 11	4 credits
Elective	4 credits

* Science students may choose to take a social studies requirement in their Grade 12 year.

Curriculum Information

Physics 11 Curriculum:

Safety, Scientific Methods, Vector and Scalar Quantities, Projectile Motion, Contact Forces, Newton's Laws of Motion, Power and Efficiency, Simple Machines, Electric Circuits, Properties of Waves, Thermal Equilibrium

Chemistry 11 Curriculum:

Safety, Scientific Methods, Stoichiometry, Chemical Reactions, Atomic Structure, Periodic Table, Bonding, Molarity, and Organic Chemistry

Anatomy & Physiology 12 Curriculum :

Safety, Scientific Methods, Biological Molecules, Metabolism and Enzymes, Cell Membrane, DNA and Gene Expression, Body Systems: digestion, circulation, respiratory, nervous, urinary and reproductive

Career Life Connections Curriculum:

Career Life Planning, Mentorship, Employment Marketing, Connections to Community, Post-Secondary Planning, Scholarships, Transferable Skills, and Capstone

