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**Course:** Science for Citizens 11

**Course Length:** 10 months  
(approx 120 hours)

**Teacher:** Mr. Francis Tsen

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### Course Curriculum

The curriculum for this course is organized around these Big Ideas:

<p><b>Scientific processes and knowledge</b> inform our decisions and impact our daily lives.</p>	<p>Scientific knowledge can be used to develop procedures, techniques, and technologies that have implications for <b>places of employment.</b></p>	<p>Scientific understanding enables humans to <b>respond and adapt to changes</b> locally and globally.</p>
<p><i>Students are expected to know the following:</i></p> <ul style="list-style-type: none"> <li>• <b>evidence-based decision making</b> through science</li> <li>• <b>personal and public health practices</b>, including First Peoples traditional health and healing practices</li> <li>• impact of <b>technologies</b></li> <li>• <b>personal safety</b> and awareness</li> <li>• <b>workplace safety</b></li> <li>• <b>certifications</b></li> <li>• <b>practical applications of science</b> in the workplace</li> <li>• <b>impacts of technology</b> in the workplace</li> <li>• <b>applications of materials science</b></li> <li>• <b>beneficial scientific innovations</b></li> <li>• <b>natural hazards and responses</b></li> <li>• human impact on Earth's systems:             <ul style="list-style-type: none"> <li>▪ <b>natural resources</b></li> <li>▪ <b>effects of climate change</b></li> </ul> </li> <li>• <b>actions and decisions</b> affecting the local and global environment, including those of First Peoples.</li> </ul>		

<b>Category</b>	<b>Weighing</b>
Learning Guide	30%
Projects	30%
Module Exams	40%

**Resources**

- Textbook not required.

**Course Content**

*Completion of items in bold and underline will activate a student in this course*

<b>Module</b>		<b>Units</b>	<b>Formative Assessment</b>
<b>1 Science in Our Bodies</b>	<ul style="list-style-type: none"> <li>• 1 Module Project</li> <li>• 1 Module Exam</li> </ul>	1: Health and Nutrition	<b>1 Assignment</b>
		2: Health and Lifestyle	<b>1 Assignment</b>
		3: Substances, Supplements, and Your Health	
		4: Home Technologies	1 Assignment
		5: Chemicals in the Home	
<b>2 Forensics</b>	<ul style="list-style-type: none"> <li>• 1 Module Project</li> <li>• 1 Module Exam</li> </ul>	6: Forensics Science	1 Assignment
		7: Crime Scene Investigator – Part 1	
		8: Crime Scene Investigator – Part 2	
		9: Estimating Time of Death	1 Assignment
		10: Examining Questioned Documents	
		11: Hair and Fibre Analysis	
		12: Analyzing Chemical Substances	
		13: Fingerprinting	1 Assignment
		14: DNA and Identity	
15: Forensics Anthropology			
<b>3 Personal Technologies</b>	<ul style="list-style-type: none"> <li>• 1 Module Project</li> <li>• 1 Module Exam</li> </ul>	16: Workplace Chemicals and Safety	1 Assignment
		17: Waste Recycling and Disposal	1 Assignment
		18: Jobs in Materials Science	
<b>4 Science in Our World</b>	<ul style="list-style-type: none"> <li>• 1 Module Project</li> <li>• 1 Module Exam</li> </ul>	19: Extreme Weather Events	1 Assignment
		20: Disaster Preparedness	
		21: Agricultural Practices and Processes	
		22: Energy Generation	1 Assignment
		23: Sustainability of Resources	

## SCCT11

### **Students are expected to:**

- contact the teacher by instant messaging, email or phone when help is needed or questions arise
- be actively engaged and submitting work on a regular basis
- inform the teacher when they will be inactive for two or more weeks.
- be aware that if they are inactive in a course for four or more weeks they may be removed from that course
- check their email at least twice a week
- create and submit completed solutions for all activities in the unit/chapter before requesting a test.
- cite all sources properly
- answer in their own words
- check that their work and tests have been marked.
- make time available to come in to Burnaby Online to write tests.
- make appointments to write tests at least 2 school days in advance.