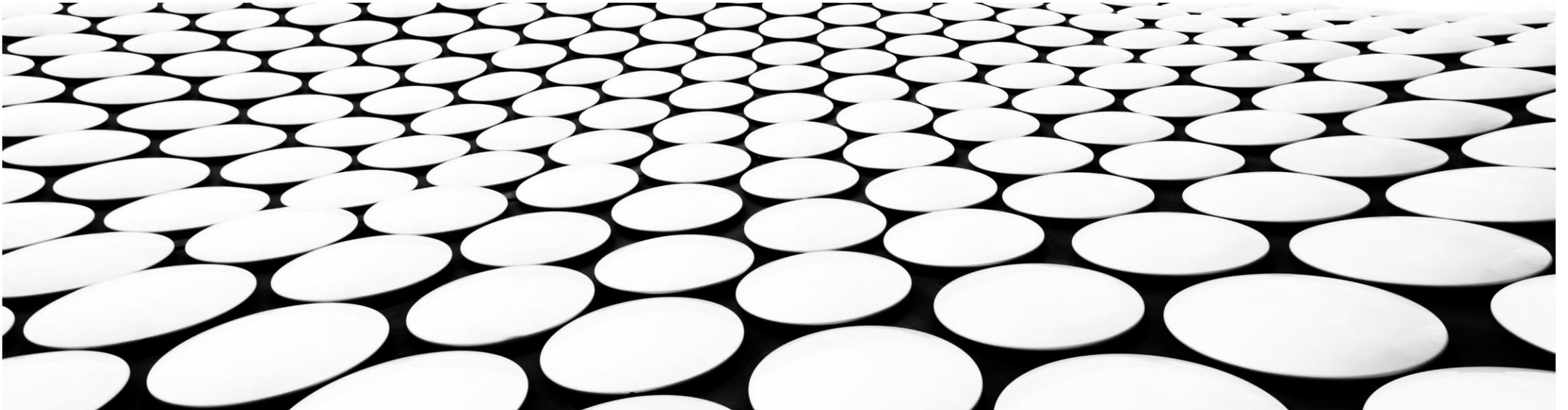

SRHS SCIENCE COURSES





SCIENCE COURSES OFFERED AT SRHS

- Automotive Electrical Systems 120
- Biology 11/12
- Chemistry 11/12
- Physics 11/12
- Human Physiology 11
- Introduction to Environmental Science 12
- Robotics and Automated Technology 12



HOW TO CHOOSE THE RIGHT COURSES

- Read course descriptions in the course handbook
- Do interest surveys such as the ones on [myBlueprint.ca](https://myblueprint.ca)
- Research the courses you need to get into your desired program (if you know what that might be) AND the courses you will take when you are there in that program
- Read the following slides

BIOLOGY 112/111

- Introductory course that looks at the cell and its role in energy flow and matter exchange by living organisms
- Great course if you are interested in living things and how they work together
- Important course for those interested in a variety of fields such as:
 - Veterinarian
 - Nursing
 - Genetics research
 - Virology
 - Forestry
 - Medical professions

* Want more info email Edward.Belyea@nbed.nb.ca



FI BIOLOGY 112/111

- This course follows the same curricular outcomes as listed on the previous slide
- This course is offered to French Immersion students and helps satisfy one of the course requirements for those seeking to get their French Immersion certificate

CHEMISTRY 112/111

- Introductory course that looks at the fundamentals of chemistry including, but not limited to atomic structure, electron configuration, chemical bonding and properties of solutions and gases.
- Required course for almost all science and technology based post-secondary programs
- Important course for those interested in a variety of fields such as:
 - Chemist
 - Biologist
 - Engineer
 - Nurse
 - Pharmacy
 - Medicine
 - Many technology programs at Community College

*Many of the concepts in Chemistry are vital in understanding the other sciences.

PHYSICS 112/111

- Introductory course that looks at the fundamentals of motion, forces and energy. Uses the laws and application of basic math to explain everyday situations
- Many concepts tie into the other sciences
- Required course for almost all science based post-secondary programs
- Important course for those interested in a variety of areas such as:
 - Engineering
 - Medicine
 - Physiotherapy
 - Radiology
 - Speech pathology
 - X-ray technician
 - Many technology programs at community college

*Although it is often an optional course for university and college admission it is often a course that has to be taken at post-secondary



HUMAN PHYSIOLOGY 110

- Introductory course that focuses on the physical components and healthy functioning of all the major human body systems
- Appeals to those that are interested in how the human body works and how to make informed decisions about your health as it relates to your body
- Often chosen by those looking to fulfill their science requirement for graduation



INTRODUCTION TO ENVIRONMENTAL SCIENCE 120

- Introductory course that focuses the main ideas of the environment and human's impact on the Earth.
- Topics include, but not limited to, understanding of biomes and how they work together, the atmosphere and its functions as well as topics such as climate change and energy use and conservation
- Often chosen by those looking to fulfill their science requirement for graduation



ROBOTICS AND AUTOMATED TECHNOLOGY 120

- You will learn the basics of robotic design including construction and programming of robot devices
- Instruction also includes an introduction to pneumatic (air-powered) controls
- Works well with Computer Science 110
- Potential to compete in robotics competition
- Great introduction for those interested in the field of robotics and electrical engineering
- Also fulfills the science requirement for graduation



AUTOMOTIVE ELECTRICAL SYSTEMS 120

- Introductory course that looks at the service and maintenance of the multitude of electrical components
- Works well with the other automotive courses
- Important course for anyone considering working in the field of Automotive repair
- Often chosen by those looking to fulfill their science requirement for graduation

GRADE 12 SCIENCE

BIOLOGY 120

FI BIOLOGY 121/122 *NEW OPTION*****

CHEMISTRY 121/121

PHYSICS 121/122

- Students in going into grade 11 are welcome to take these courses but they should use caution
- Grade 12 versions of these courses extend on the principles learned in grade 11
- Often require math and/or other science concepts that are attained in the other grade 11 courses



QUESTIONS OR CONCERNS?

- If you would like more info please email Jeffrey.gaunce@nbed.nb.ca