



# Why 3U1 Physics?

## SPH3U1

- teaches *how* to think through problems.
- many college *technician and technologist* programs require it
- *trades* (e.g., electricians) and *apprenticeships* want it
- Needed for life sciences

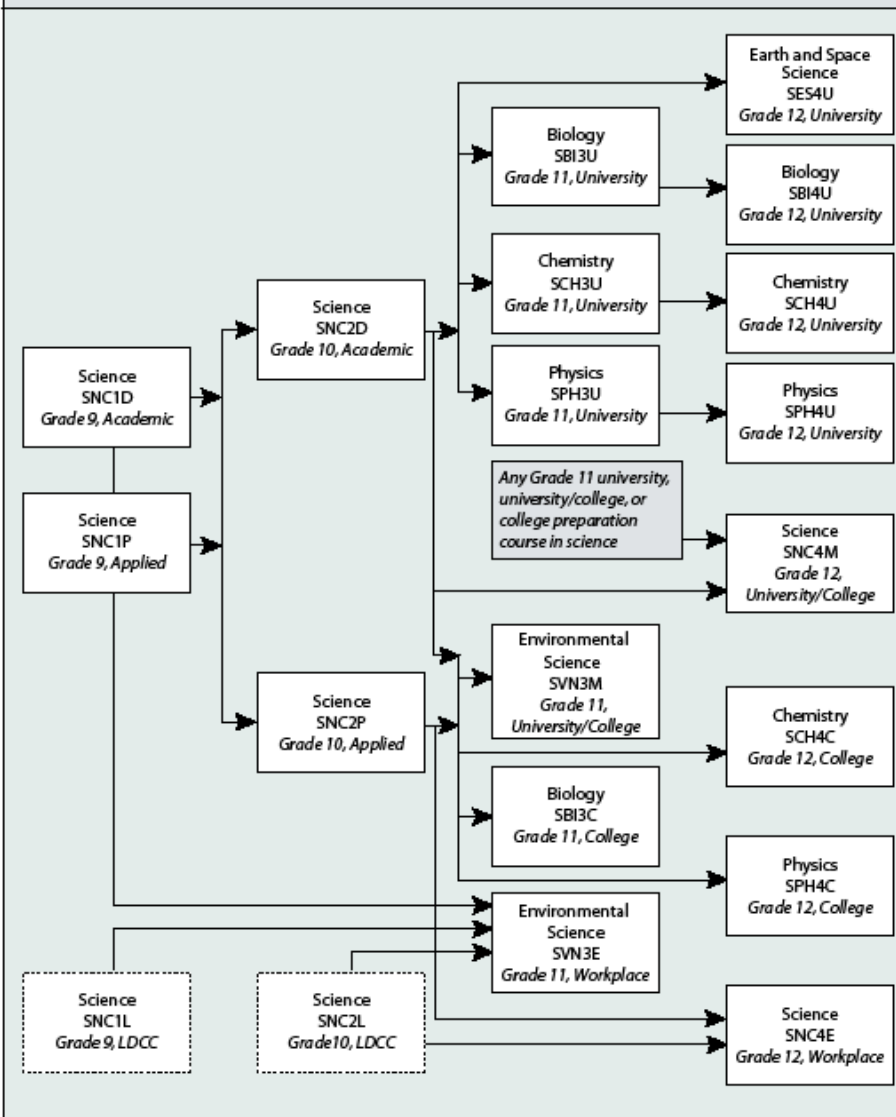
# Yes, but do I need Physics 4U1?

- often recommended by universities for *math, science, engineering, and professional* programs
- doing well in 4U1 physics is a good indicator of future success in a university program
- students who have *not* taken SPH4U and must take a university physics course (e.g., for *life sciences*) are up to 4× more likely to *fail* or *drop out* of the program (Trent University study)

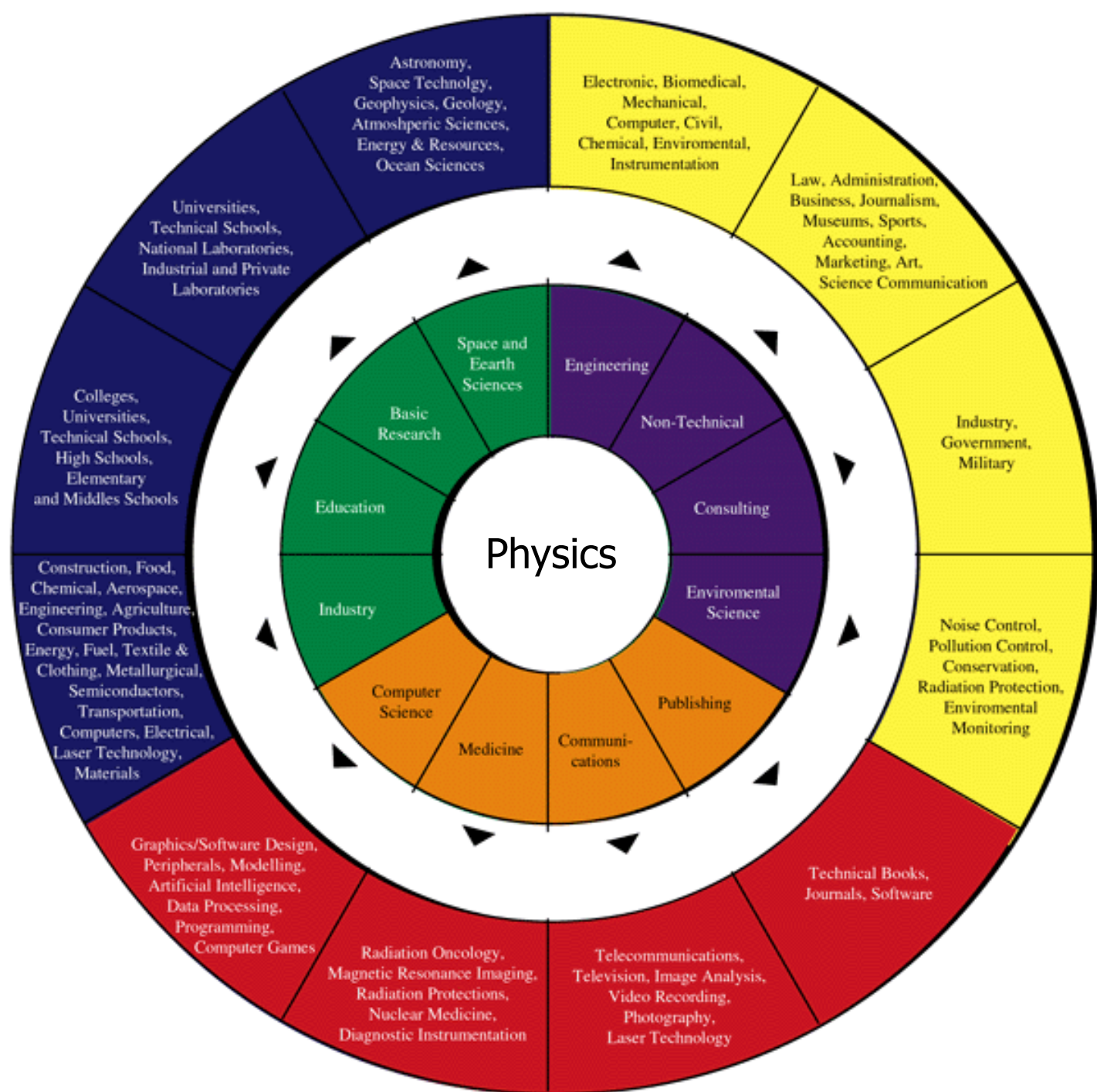
# Science Pathways

## Prerequisite Chart for Science, Grades 9–1 2

This chart maps out all the courses in the discipline and shows the links between courses and the prerequisites for them. It does not attempt to depict all possible movements from course to course.



Note: Dotted lines represent locally developed compulsory credit courses (LDCCs), which are not outlined in this curriculum document.



# SPH3U1

- Motion (Kinematics)
- Forces and Projectile Motion
- Energy and Radioactivity
- Waves and Sound
- Electricity



# SPH4U1

- Forces (Dynamics)
- Energy and Momentum
- Gravitational, Electric and Magnetic Fields
- The Wave Nature of Light
- Modern Physics

# What is needed?

## **SPH3U**

- grade 10 academic math and science  
(caution! lots of math in 3U physics)

## **SPH4U**

- MCR3U, SPH3U (>65%)  
(should also take 4U level math concurrently)