

Sec 2 Subject Combination Talk

Sciences Offered:

Pure Physics

Sc Phy/Chem

Pure Biology

Pure Chemistry

Sc Chem/Bio

Physics

What do you study?

Matter and energy (heat, light, sound, electricity),
Machines, Vehicles, Engineering, Nanotechnology....

Courses related to Physics

- Aerospace technology
- Biomedical engineering
- Marine and offshore engineering
- Logistic management
- Mechanical engineering
- Mechatronic engineering
- Product design and innovation

Chemistry

What do you study?

Substances, how are they made up, react, under different conditions (element, compound, mixture, ions, acid base, organic compounds), Pharmaceutical drugs, fuels, plastics...

Courses related to Chemistry

- Drug development**
- Pharmacology**
- Chemical Engineering**
- Chemical process technology**
- Materials Science**
- Perfumery and Cosmetics Sciences**

Biology

What do you study?

Study about living things (nutrition, transport, respiration, excretion, microorganism, biotechnology)

Courses related to Biology

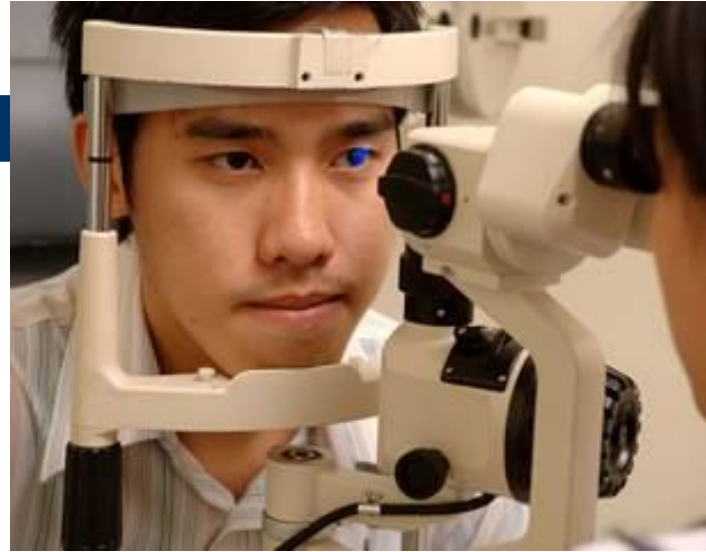
- Life sciences
- Health Science
- Physiotherapy
- Radiation therapy
- Nursing
- Clinical trial methodology and management
- Medicinal Chemistry** (new course offered at NYP)

Tertiary Courses requiring **Biology and Physics**

Biomedical Science



Optometry



Bio Electronics



Tertiary Courses requiring **Biology and Chemistry**



Biotechnology

Food Science and Technology



Tertiary Courses requiring **Physics and Chemistry**



Clean Energy



Chemical Engineering

Chemical Process Technology



More information ...

- <http://www.sp.edu.sg>
- <http://www.nyp.edu.sg>
- <http://www.np.edu.sg>
- <http://www.learningexpress.com> (Temasek Poly)
- [JAE – joint admission exercise, courses available, entry requirement]

Difference between Pure Science and Combined Science

Pure Biology	Biology component of Science (Chem/Bio)
22 Chapters	19 Chapters – for one component only.
Greater depth and demands (higher order thinking and challenging application questions)	Lesser depth (more recall and some application questions)
'O' Level SPA in sec 3 and 4	'O' Level Practical Exam

'O' Level Examination Format

Pure Sciences

P1 – MCQ (30%)

P2 - Structured & free response questions (50%)

P3 –SPA – 3 assessments within 2 years (20%)

Combined Sciences

P1 – MCQ (20%)

P2/3/4 - Structured & free response questions (65%)

P5 – Practical test – only assessed once by Cambridge at "O" Level (15%)

<http://seab.gov.sg>

CHOOSE WISELY

Ask your Science Teachers.

Talk to your Seniors.

Discuss with your parents.

Surf the net for more info.

Consider your Ability, Interest and Aptitude

Thank you for your attention!