



Napier Boys' High School



SUBJECT CHOICE - SELECTION



NAPIER BOYS' HIGH SCHOOL

COURSE SELECTION

Please start helping your son to select his course for next year by working through this careers information booklet with him. Use the Napier Boys' High School website.

On the 'About' page you can link in to Pastoral – Careers.

The Careersnz hyperlink will give you information on jobs and relevant subjects for your son to take. The interactive tools, especially the Career-Quest online, can offer your son a personal profile.

All our students now have access to Careercentral so they can access career resources, Bullseye for a profile and You tube career videos to help make an informed decision.

For further career advice, please make an appointment with Mrs Laurs on 833-5900 ext 220, email claurs@nbhs.school.nz - or contact your sons' Dean.

WHAT SUBJECTS SHOULD I TAKE?

AGRICULTURAL SCIENCE	Biology, Chemistry, Agriculture
ARCHITECTURE	Art and/or graphics (portfolio), Physics, Calculus, History, Classics
ARMY, NAVY, AIRFORCE	min. 12 credits at Level 2 English and Maths (depends on career path)
AUTOMOTIVE	Technology/Engineering, Panel beating, English and Maths
BUILDING/CARPENTRY	Technology Woodwork, English and Maths
BUSINESS	English (language), Statistics and/or Calculus, Accounting, Economics
CHEF	English and Maths, Food Technology
COMPUTER SCIENCE	ICT, Statistics and other combinations
DENTISTRY	Physics, Chemistry, Biology, English (language) and Statistics
DESIGN/ART	Ar and/or Graphics (portfolio), English (language), History, Classical Studies
ELECTRICIAN	Physics, English (language) and Maths, Technology Subject
ENGINEERING	Calculus, Physics, Chemistry (advised), Graphics (optional)
ENVIRONMENTAL STUDIES	Biology, Chemistry, Geography, Agriculture
LAW	English (language), History, Classical studies, Statistics
MEDICINE	Physics, Chemistry, Biology, English (language) and Statistics
MUSIC	Music, English, Languages, possible other Arts Subjects
PHYSICAL EDUCATION	English (language), Statistics, Physical Education, Biology
PHYSIOTHERAPY	Physics, Chemistry, Biology, English (language) and Statistics (AUT requirements different)
POLICE	Physical education, English (language), Math, Geography, History, Physical Education (NO convictions)
SURVEYOR	Physics, Calculus, Geography
TEACHER	Degree background (two strong subject areas)
TECHNOLOGY	Calculus, Statistics, Physics, Chemistry

WHERE CAN I GET SOME HELP?

Careersnz is the largest website in NZ that offers students, parents, whanau help in choosing subjects. It is our first hyperlink on the Napier Boys' High School website.



Go to Napier Boys' High School click on [Pastoral - Careers](#) and you will get a page that links you into the best career sites.

All students are also on Career Central their own Career platform

If a student logs into Google - and uses his school email login he can show you Job profiles, Subjects needed in those jobs from school, his own Bullseye Career Personality profile, Links to University or Polytechnics under the Resource area and for Seniors NCEA credits they have attained at school.

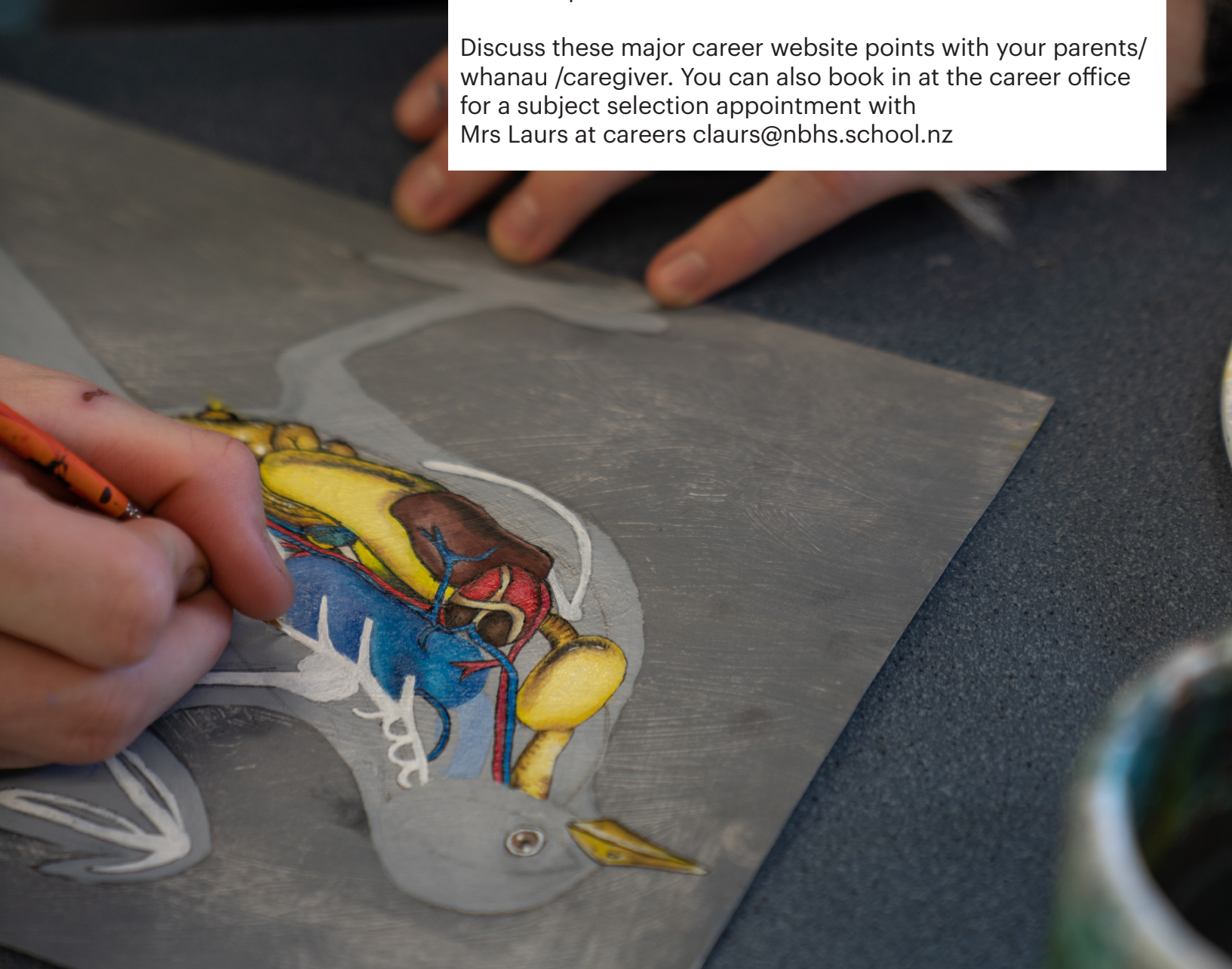
My Mahi is another website that contains good career resources.



SUBJECT SELECTION ADVICE

- Retain subjects you are good at and enjoy
- Keep maths, english, and at least one science subject- it is a good place to start
- Check subjects you need to take for further study/ employment that you have thought of for your Plan A or B. Use the websites above to confirm the subjects you need to take
- Study a broad range of subjects as this will keep your career options open
- Choose subjects where your skills and interests complement, i.e., fixing things - engineering, writing english, playing an instrument-music, problem solving maths, science.
- Extracurricular activities can also support you into a career decision as your interests help you get into a career, i.e. rugby – PE trainer, cooking- home economics - chef, woodwork-building construction- carpenter

Discuss these major career website points with your parents/ whanau /caregiver. You can also book in at the career office for a subject selection appointment with Mrs Laurs at careers.clours@nbhs.school.nz




PLAN A AND PLAN B

Always have a Plan A and B career option for your future. If you are unsure look at using the interactive programmes such as Careerquest, Subjectmatcher and Skillmatcher on Careernz. Alternatively use Career Central and Bullseye.

All job profiles suggest subjects for the careers or jobs to take at school. These Career tools help identify a Career profile for you or allow you to get ideas according to the subjects you are strong at. You need to have Plan A and B career options for your school, academic direction. This is extremely important from year 11 -13 as science subjects break up into Chemistry/ Biology/ and Physics and need to be selected carefully to allow your future career pathways. Many students are not aware that subjects define what you will be able to do in your life.

An example is – Software Engineering requires strong Maths skills, Engineering requires Chemistry, Physics and Calculus. If you use these interactive tools with your parents, you can easily check the subjects needed for any career.



Here is a sample from the Careernz website on how to identify subjects needed in a career role.

Electrical Engineer, Mataaro Pūhiko

This job is sometimes referred to as:

- Building Services Engineer (Electrical)
- Instrumentation Engineer
- Power Systems Engineer

Electrical engineers specify, design, and supervise the construction or manufacture of systems and equipment that produce, distribute and/or use electricity. They also maintain, operate, and manage these systems and equipment.

Entry requirements: Professional engineers

Professional engineers work on large complex projects. To become a professional engineer, you need a four-year degree in engineering. This may be:

a Bachelor of Engineering or a Bachelor of Engineering Honours – BE(Hons).

Secondary education

To enter tertiary training, a university entrance qualification (NCEA Level 3) is usually required. Useful subjects include maths with calculus, technology, physics, and chemistry.

This sample shows you and your parents how to double check subject choices in a researched way, so you have the knowledge and assurance that you are doing the right subjects for your future - Please use it.

All Career summaries on the site contain useful links to related career profiles as well and extra valuable information about each career.

These are all available in your Career Central under Jobs as well. You also need to carefully check the NBHS subject handbook you are given for pre-requisites in a subject from year to year, e.g., accounting Level 2 requires Level 1.

Every University website has a Best Preparation for University Study on it. Please check what you require if you are planning a specific degree.

TERTIARY PREPARATION – APPRENTICESHIPS

Entry Requirements for University

The University Entrance is the minimum requirement to get into a New Zealand University. Certain Universities also require a NCEA rank score for their courses.

University Entrance (UE) will be the minimum requirement to go to a New Zealand university. To be awarded UE you will need:

- NCEA Level 3- 60 credits
- Three subjects - at Level 3 or above, made up of:
 - o 14 credits each, in three approved subjects
- Literacy - 10 credits at Level 2 or above (XLSX, 37KB), made up of:
 - o 5 credits in reading
 - o 5 credits in writing
- Numeracy - 10 credits at Level 1 or made up of:
 - o Achievement standards – specified achievement standards available through a range of subjects, or
 - o Unit standards - package of three numeracy unit standards (26623, 26626, 26627- all three required).

Once you have met the requirements for University Entrance it will appear on your Record of Achievement. Credits can be accumulated over more than one year.



For most New Zealand Universities (except Lincoln and Waikato) you also need a Guaranteed Entry Score to gain entry into your course of study.

The Rank score is calculated as follows

- Based on 80 best credits in all approved subjects at level 3 or higher
- If fewer than 80 credits, the rank score is based on what you have
- A maximum of 24 credits in each subject may be counted
- Achievement or unit standards may be counted

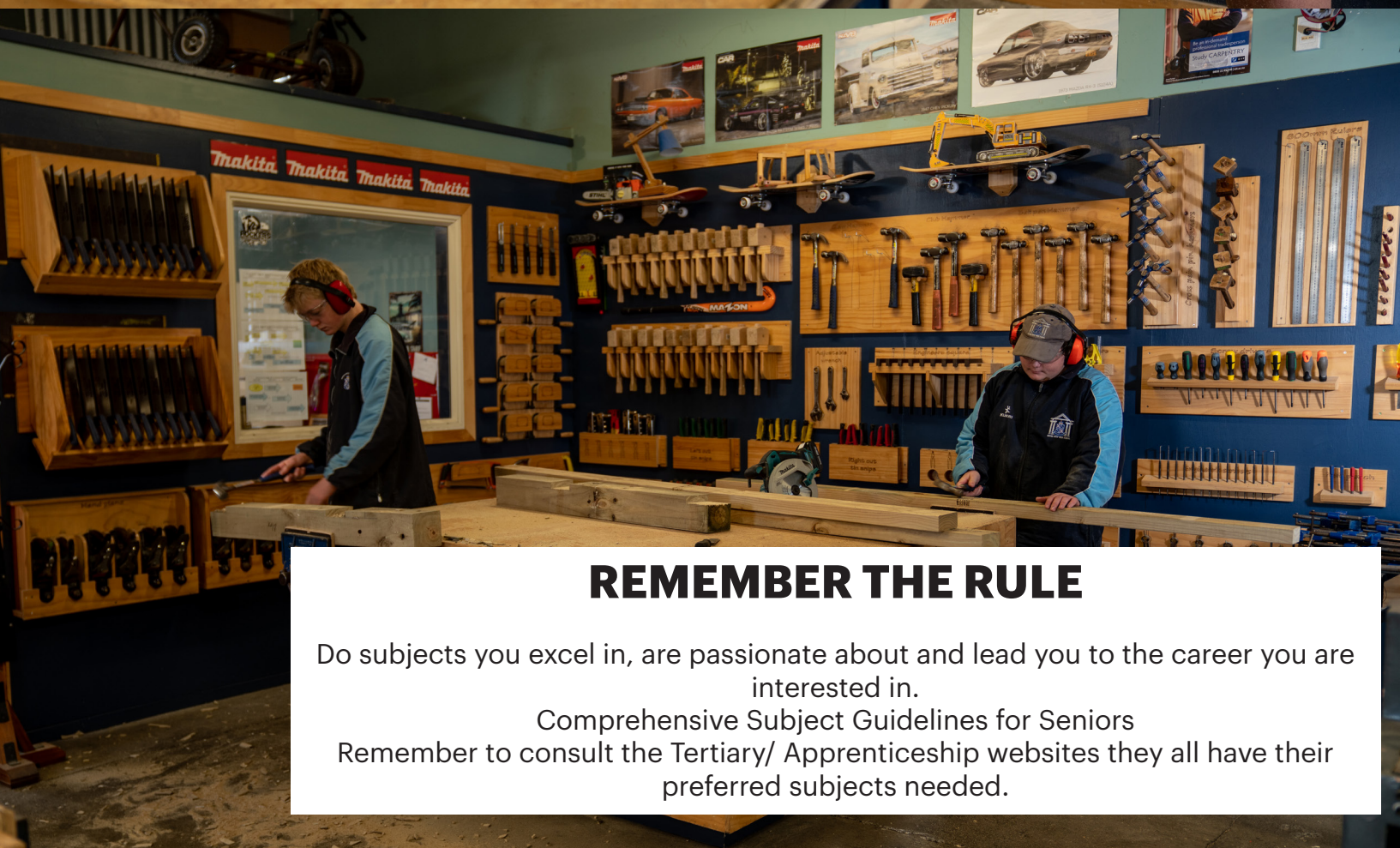
Rank scores for NCEA are worked out by giving point values to credits achieved as follows:

- For every Excellence credit- 4 points
- For every Merit credit- 3 points
- For every Achieved credit- 2 points

If you are deciding to enter Polytechnic, you need to check the entry requirements for the courses under their criteria.

Certificates require a minimum of Numeracy and Literacy at Level 1

Diplomas usually require Level 2 60 credits in 4 subjects but can vary according to the course.



REMEMBER THE RULE

Do subjects you excel in, are passionate about and lead you to the career you are interested in.

Comprehensive Subject Guidelines for Seniors

Remember to consult the Tertiary/ Apprenticeship websites they all have their preferred subjects needed.

SUBJECT CHOICES

CAREERS	PREFERRED YR 13 SUBJECTS (Useful subjects in brackets)
Accountancy	Acctg (Stats, Calc, Eco, Eng/Hist)
Agriculture/Agri.Science	Physics, Chem, Bio, one of Calc or Stats (Geo) Ag
Architecture	Physics (Calc/Stats, Art/Art Design, Eng/Hist/Art Hist)
Art/Museum Conservator	Chem (Art Hist, Eng, Hist, Classics, Stats)
Aviation/Commercial Pilot	Calc, Phys, Chem (Acco or Eco)
Biochemistry	Stats, Bio, Chem
Biological Sciences	Bio, Stats required, Chem preferred (Sci, Geo, Eng/Hist/Art Hist)
Broadcasting	Eng + at least one of Classics/Hist/Art Hist/Econ/Geo
Building Science/Construction Management	Calc/Stats, Physics, Graphics (Sci, Eng/Hist)
Career/Trade Diplomat	Double degree preferable: (Career) Eng + Classics, Art Hist/Hist (2nd language); (Trade) Eco, Acco, Stats (Calc, 2nd language)
Commerce	See Accountancy, Eco, Mgmt, Tourism, Valuation, etc.
Computer Science/Technology	Calc, Stats, Phys (Sci) DIT
Criminology	Eng, Stats, plus at least one of Hist/Art Hist/Classics/Geo
Defence Studies	(Hist, Eng) Any broad scope
Design (any)	Two of Art/Photo/Art-Des/Graphics Eng/Art Hist/Classics
Dietetics/Nutrition	Bio/Chem, Stats + Eng/Hist/Classics
Ecology/Conservation	Stats, Bio (Geo, Chem, Sci Eng/Hist)
Education	(All subjects useful)
Engineering (Professional)	Calc, Phys for all courses; Chem
Environmental Science	Stats, Bio, Chem (Geo, Eng, Sci)
Fashion	Two of Art/Photo/Art-Design/Graphics/Art Hist/Classics, Eng
Finance	Eco, Stats (Calc, Acco, Eng/Hist/Art Hist/Classics)
Fine Arts	Art-Painting + one of Art-Design, Photo, Graphics, other Art Hist/Classics

Forensic Science	Bio, Stats (Chem/Science, Geog/Hist/English, Calc)
Forestry	Bio, Chem, Stats (Physics/Sci, Eng/Hist/Geo)
Horticulture	Eco or Acco (a foreign language, Stats)
Hotel/Hospitality Mgmt	Calc, Stats, Physics
Information Sciences	Eng + at least one of Classics/Hist/Art Hist/ Econ/Geo
Journalism	At least one of Graphics/Art/Art-Design/Eng/Art Hist/ Classics
Landscape Architecture	At least one of Graphics/Art/Art-Design/Eng/Art Hist/ Classics
Law	Eng, + at least one of Classics/Hist Hist/and Sci
Librarianship	Eng, + at least one of Hist/Classics/Art Hist/Geog
Management	Stats + at least one of Eco/Acco (Calc)
Marine Science	Mix of Stats, Bio, Chem, Geo, Phys, Sci needed; (training only available at graduate level after a B.Sc.)
Mathematics	Calc, Stats
Media	Eng + at least one of Classics/Hist/Art Hist/Eco/Geo
Med. Lab. Science	Stats, Bio, Chem (Phys, Eng/Hist/Art Hist/Classics/Geo)
Medicine	Must have Eng /Te Reo or Classics/Art Hist + Chem,Bio, Physics Maths/Stats or Calc The Science and Maths subjects are impt.
Midwifery	Bio, Chem/Science, Stats, Eng/Classics/Art Hist, Chem preferred
Music	Music (Languages, English very useful, all others)
Nursing	Bio, Chem/Science, Stats, Eng/Classic/Art Hist
Occupational Therapy	(Stats, Chem, Bio, Science) Eng/Classic/Art Hist
Optometry	Chem, Bio, Stats, Phys (Eng/Hist/Art Hist/Classics, Art/ Photo/Art Design)
Performing Arts	Eng + one of Classics, Art Hist/Hist (2nd language useful) Eng
Pharmacy	Bio, Chem, Stats or Calc (Phys needed if applying at Otago)
Physical/Outdoor Education	(Stats, Bio, Geo, Eng/Hist/Classics) Chem
Physiotherapy	Stats, Bio, Chem/Sci: Note: Bio, Chem Physics for Otago
Planning	Eco, Geo + Stats/Calc (Bio, Eng/Hist)
Plant Sciences	Stats, Chem Bio (Science)

Property	Eco, Stats (Calc, Acc, Eng/Hist)
Psychology	Eng, Stats + at least one of Hist, Geo, Classics, Art Hist
Quantity Surveying	Stats/Calc, (Acco, Eng/Hist/Geo, Physics)
Radiology	Stats/Calc, Phys/Science (course requirements vary)
Social Work	Eng, Stats + at least one of Hist, Geo, Classics, Art Hist
Soil Science	Chem, Stats and/or Calc (Phys, Geo)
Speech-Language Therapy	(All subjects useful)
Sports Coaching/Mgmt	Eng/Art Hist/Classics, PE (Eco/Acco, Stats)
Sports Science	Stats, Eng/Classics (Bio, Chem, Sci)
Statistics	Calc, Stats
Surveying (Land)	Calc, Phys, Geo (Stats, Eng also useful)
Teaching	Need to take subjects relevant to the type of teaching intended
Technology	Phys, Chem + Calc/Stats (Bio needed for Bio/Food/Env. Tech options)
Theology	Theology (Eng, Hist, Classics, Art Hist, Geo)
Tourism	(Stats, Eco/Accntg, Geo, Eng/Hist/Art Hist/Classics)
Valuation	Eco, Stats (Calc, Acco, English/Geo/Hist/Art Hist/Classics)
Vet Science	Stats, Bio, Chem, Phys + Eng/Hist/Art Hist/Classics
Visual Arts	Art/Photo/Art-Design/Graphics/Eng/Art Hist
Wine Science	Stats, Chem (Bio, Geo, Sci)
Weather Science	Phys, Stats and/or Calc, Eng/Hist/Geog

DO WHAT YOU LOVE, AND SUCCESS WILL FOLLOW

