

# King's High School

## Senior School Courses

### Year 13



# YEAR 13

There are no compulsory subjects at this level.

You must choose carefully to ensure that any future career paths are catered for.

As with the Year 12, no student may enter the Year 13 without a coursing interview, which preferably involves parents.

There are over thirty possible course options. This includes the areas of Tourism and Catering.

Several subjects are taken in conjunction with Queen's High School. Therefore no student will be denied the course of his choice.

As the senior students of the school it is expected that you will act as role models for younger students.

Your personal standard of behaviour must be above reproach.

Attendance is compulsory for all subjects. Poor attendance will lead to no qualifications being awarded.

Study becomes an option in the fourth term, as a build up to your examination.

Tutorials after school and in the evenings will be offered.

Think carefully about your options; discuss fully with parents and teachers; choose wisely.

# Year 13

## University Entrance Requirements

Students will need **all of the following** to be awarded UE:

- Attain NCEA Level 3
- Achieve 14 credits at level three in **each of three subjects from the list of approved subjects**. The list of approved subjects will consist of subjects derived from the New Zealand Curriculum with achievement standards at Level 3
- Achieve UE numeracy – 10 credits at Level 1 and above from specific achievement standards, or three specific numeracy unit standards
- Achieve UE literacy – 10 credits (five in reading and five in writing) at Level 2 and above from specific standards. These standards will be across the curriculum, and not just from English.

Note: All Universities now have a specified entry criteria

### Otago University

Preferential entry is given if:

1. You received NCEA Level 2 endorsed with Merit or Excellence and you obtain University Entrance as stated above
2. You acquire 140 points over 5 subjects from a maximum of 80 credits.  
Each credit gained at
  - Excellence level = 4 points
  - Merit level = 3 points
  - Achievement level = 2 points

# ACCOUNTING

## INTRODUCTION

Accounting provides an understanding of the financial side of businesses. It is an important subject for anyone who is thinking about running their own business, or working in a management role. If you have a basic level of mathematics, can think logically, and want to succeed, you should enjoy the challenge of this subject. Accounting may lead to careers in chartered accounting firms, government organisations, not-for-profit organisations, banking and financial services, management consultancies, educational institutions, law firms, business and commercial enterprises.

## PREREQUISITES

NCEA Level 2 Accounting – 11 credits.

If you have to previously studied Accounting, entry is at the discretion of the Head of Department who will assess your readiness to manage the Level 3 Accounting course, based on your overall NCEA Level 2 results.

## CONTENT

By the end of the year, students should be able to:

- prepare financial statements for a company
- prepare financial information for a partnership
- interpret an annual report of a New Zealand company
- prepare extensive financial information for decision-making

## SKILLS

Students will develop systems to keep track of responsibilities and meet deadlines, manage workload through time management, adapt to changing situations and look for opportunities. They will communicate well in writing and in person, maintain honesty, integrity and high ethical standards, show leadership, and work in a team.

## ASSESSMENT

This course will be assessed using Achievement Standards, with a maximum of 13 credits internally assessed and 13 credits externally assessed. Most standards contribute to NCEA Numeracy and Literacy requirements.

## COURSE FEE

Workbook approx. \$35.00

For further information, see Mrs Chipping.

# BIOLOGY

## INTRODUCTION

The study of Biology connects us to the world we are living in and reminds us of our interconnectedness with all other life forms. This includes how organisms interact with their environment, how species arise, change and become extinct and how genetics maintains continuity, plus allows for change.

The emphasis is on the development of the intellectual and practical skills needed for an understanding of biological science. This means that up to date knowledge, practical techniques for biological investigation, scientific method, an independent, self-directed study are emphasized.

## PREREQUISITES

14 credits in Level 2 Biology with 4 of these credits from the external examinations, or at the discretion of the Head of Department.

## CONTENT

- Homeostasis in animals
- Patterns of Evolution
- Transfer of Genetic information
- Human evolution
- Plant Responses and Animal Behaviour (Scholarship class)

## SKILLS

Biology uses investigation and experimentation to gain knowledge and understanding. Students must be able to use appropriate terminology to discuss or evaluate biological issues. Abilities for recall of fact, understanding and applying knowledge, interpreting and processing evidence, observation, making judgments based on evidence are also important.

## ASSESSMENT

21 credits of Achievement Standards may be gained in this course.

## COURSE FEES

There will be a fee of \$30.00 for a Workbook. Plus approximately \$26 for a day trip to Blueskin Bay for fieldwork.

For more information, see Mrs Jopson.

# BUSINESS STUDIES

## INTRODUCTION

Business Studies is a course that combines practical business experience with NCEA assessment. This year 13 course will run in conjunction with the Young Enterprise Programme. This is a new course in 2017 to enable progression from year 12. It will run subject to student interest and staffing availability.

## PREREQUISITES

A prior study of Business Studies in year 12 is helpful, but not essential. Students may also enter Business Studies from other Commerce disciplines (Economics or Accounting). A keen interest in practical business applications and some entrepreneurial flair is desirable as a large focus of the course is the development of a student start up business.

This course is not suitable for students who cannot work in a team or are unable to meet non-negotiable deadlines. Both these skills are required for the Young Enterprise Programme, which is a component of this course.

## CONTENT

Topics of work will include:

- Developing a marketing plan for a new or existing product.
- Analysing a human resource issue that affects business.
- Carrying out an innovative and sustainable business activity.

It is through this business activity that students will develop evidence for internally assessed Achievement Standards.

## ASSESSMENT

This is an internally assessed programme worth 18 NCEA Level 3 credits.

Additionally all students will be entered in the Young Enterprise Exam, which can earn 10 NCEA Level 3 credit equivalents.

Full completion of all Young Enterprise Course requirements to the level required might also earn another 14 Level 3 credit equivalents.

Level 3 Business Studies is an approved University Entrance subject.

The internal assessments meet University Entrance Literacy requirements for reading.

## COURSE FEE

The Young Enterprise registration fee is \$35.00 and the Young Enterprise exam fee is \$25.00. There may be additional costs associated with setting up your business.

For further information, see Mrs Calverley.

# CHEMISTRY

## INTRODUCTION

This course provides students with a solid background for further study in a Chemistry related field and/or general knowledge for later life. Chemistry and scientific developments generally, influence and contribute to our everyday lives. The work is interesting, with practical and theoretical content. The course is well designed, and, the subject provides students with a sense of achievement.

### Aims of the course

- To further investigate and develop an understanding of the ways materials and chemical processes interact with people and the environment.
- To carry out a range of practical investigations and use this and other information to explore chemical behaviour.
- To understand important concepts in chemistry and major patterns of chemical behaviour.
- To develop independent learning skills.

## PREREQUISITES

14 Credits in Level 2 Chemistry.

## CONTENT

### Externally Assessed Standards

- |     |   |             |
|-----|---|-------------|
| 3.4 | Demonstrate understanding of thermochemical principles and the properties of particles and substances | (5 credits) |
| 3.5 | Demonstrate understanding of the properties of organic compounds                                      | (5 credits) |
| 3.6 | Demonstrate understanding of equilibrium principles in aqueous systems                                | (5 credits) |

### Internally Assessed Standards

- |     |   |             |
|-----|---|-------------|
| 3.2 | Demonstrate understanding of spectroscopic data in chemistry  | (3 credits) |
| 3.7 | Demonstrate understanding of oxidation-reduction processes  | (3 credits) |
| 3.3 | Demonstrate understanding of chemical processes in the world around us (optional additional Achievement Standard) | (3 credits) |

## ASSESSMENT

Internal Assessment – 6 (9) credits

External Assessment -15 credits

## COURSE FEES

There will be a cost for a Workbook (approx. \$36.00)

For more information, contact Mrs Fortes or Mr Hagishitani.

# CLASSICAL STUDIES

## INTRODUCTION

Classical Studies is the study of Ancient Greece and Rome encompassing the Art, Architecture, Literature, Science and Philosophy of these amazing civilisations.

Our own civilisation is based on the achievements of these early peoples. Our system of democracy; our civil engineering; our laws; our art and architecture are all a result of the unique thought and action of the Greeks and Romans.

## PREREQUISITES

A minimum of 12 credits in either Level 2 Classics, English, History, Economics or Media Studies or at the discretion of the Head of Department.

## CONTENT

FOUR topics will be taught. They are:

- Socrates (a philosophy topic)
- Greek Science (a science/philosophy topic)
- Roman Art and Architecture
- Virgil (a literature topic)

Each topic will be related to a historical overview of the topic's influence on future peoples.

## SKILLS

This is a multi-disciplinary subject and as such it reflects the skills needed and used in many areas.

The major skills required for the NCEA examinations are:

Recall of knowledge, description of events, analysis/evaluation of ideas and material.

Within the class listening and speaking skills are essential.

It is expected that all students will participate in debating the various ideas that the class considers.

## ASSESSMENT

NCEA Level 3

- 8 credits can be obtained through external examinations.
- 12 credits through internal assessment

For more information, see Mr Frost.



# COMPUTING

## INTRODUCTION

Computers are a necessary tool used by industries and in University studies in a wide variety of ways. This course provides students with the flexibility to specify which knowledge and skills will be of most use to them for the future.

The Year 13 course offers students the opportunity to further develop their knowledge of common Microsoft applications like Word and Excel in a Unit Standard based course. This builds on the skills developed in Year 12, but is also available for those looking to develop useful workplace computer skills for the first time.

## CONTENT

The course is broken down into modules of work targeting general computer application use. Students will learn to be more effective and advanced users of applications such as Microsoft© Word, Excel and Publisher. There is also the potential for successful students to move on to a larger project in the back half of the year if they wish.

**Note:** This is not a university entrance course.

## ASSESSMENT

### Internal Unit Standards:

- Advanced concepts of Word Processing US112 (5 credits)
- Advanced concepts of Spreadsheets US2785 (5 credits)
- Advanced concepts of Desktop Publishing Documents US2788 (6 credits)

Written tests, practical tests, assignments, oral tests and observation of competencies will be used to assess elements of unit standards at appropriate times.

For more information, see Mr Greenfield.

# DESIGN & VISUAL COMMUNICATION

## INTRODUCTION

The NCEA Level 3 DVC course gives you the opportunity to fully utilise the techniques, skills and knowledge you have developed over the previous four years of DVC.

## PREREQUISITES

At least six internal and six external credits at Level 2.

## CONTENT

The programme will revolve around a major project of your choice, based on either a spatial/architectural or product design project, which allow you to produce evidence for one external and two internal Achievement Standards along similar lines to the way it was done in Levels 1 and 2.

You are required to use design and visual communication skills to solve and produce solutions to problems in your chosen area of design.

Evidence will be generated for the following Achievement Standards:

- Develop a visual presentation that exhibits a design outcome to an audience
- Resolve and spatial / product design through graphics practice
- Produce working drawings to communicate production details for a complex design

This course is another step up from Level 2. It will be demanding. To be successful, there must be on-going commitment and work ethic throughout the year to enable you to produce the quality and quantity of work required at this level.

However, as with Level 1 and Level 2, if you come prepared to work hard, you will find this course interesting, stimulating and enjoyable.

## COURSE FEE

There is no course fee for this subject. You will need to ensure you have all stationary equipment required, at the start of the year.

For more information, see Mr McNaught.

# DIGITAL TECHNOLOGY

## INTRODUCTION

The Year 13 Digital Technology (NCEA Level 3) course is designed to follow on from core knowledge taught in Level 2 Digital Technology, specifically Computer Science and Digital Media. Students will develop skills and knowledge of tools and techniques in these areas. They will apply their knowledge and skills in technological practice to develop 3D models and software applications. The course is structured around the development of a virtual tour environment for PC using a 3D IDE.

**PRE-REQUISITE:** Computer Science and Digital Media Credits at Level 2 NCEA – Familiarity with a written programming language is important.

## CONTENT:

### Internal

- Develop, implement and test a computer program using Object Oriented programming concepts  
3.46 (6 credits)
- Develop an animation and 3D model using blender  
3.43 (4 credits)
- Demonstrate understanding of Wide Area Network technologies through implementing procedures to manage a WAN  
3.5 (4 credits)

### External

- Demonstrate understanding of complex areas of computer science  
3.47 (4 credits)

## ASSESSMENT

10 Level 3 Digital Technology Credits / 16 Level 2 Generic Technology (26 Total)

4 Internal Achievement Standards (22 Credits)

1 External Achievement Standard (4 Credits)

A digital portfolio, written tasks, practical tasks, assignments, oral tests and formal observation of competencies will be used to assess elements of the Achievement Standards at the appropriate times throughout the year.

For more information, see Mr Greenfield.

# DRAMA

## **INTRODUCTION**

This course is a continuation of the Senior Drama course offered at King's. The structure of the course is very similar to Levels 1 and 2 in that students will perform a scripted role, devise theatre and study the work of a theatre practitioner

## **PREREQUISITES**

Participation in either Level 1 or Level 2 Drama - but preferably both, is essential if students want to take Level 3 Drama. If they do not have any experience in Senior Drama, they will need to request entrance from HOD Drama, Ms Harford.

## **ASSESSMENT**

There is an opportunity for students to complete additional standard/s. This can be negotiated with the teacher.

(13) Internal

4 External

There will be the opportunity for students to complete Scholarship. This decision will be made in consultation with the Year 13 Teacher and HOD Drama.

## **COURSE FEE**

The class will attend theatre productions throughout the year and students are expected to pay for tickets and transport.

For more information, see Ms Harford.

# ECONOMICS

## INTRODUCTION

Year 13 Economics is a challenging course but successful completion serves as an excellent predictor of success for continued study at the tertiary level. The course builds on prior study of perfectly competitive markets, analysing allocative efficiency, as well as looking at real world examples of market failure. It also includes an overview of government policies designed to meet macro-economic goals. Additional extension opportunities are available for students wishing to pursue Scholarship study.

## PREREQUISITES

A minimum of 12 credits in Level 2 Economics or Merit/Excellence subject endorsement in Level 1 Economics.

If you have not studied Economics before, entry is at the discretion of the Head of Department who will assess your readiness to manage the Level 3 workload based on your NCEA Level 2 results.

## CONTENT

The Level 3 programme is broadly grouped into three areas of study:

Allocative efficiency via the unregulated market - the role of prices and profits in determining resource allocation and maximising societal welfare;

Market Failure - how and why government intervenes in markets that fail to deliver efficient or equitable outcomes: and

Macro-economic goals - how government policy is designed to achieve the macro-economic goals of price stability, economic growth, full employment and a balance of payments.

There is also an opportunity to be involved in extension activities such as the NZ Treasury Schools' Challenge and the Reserve Bank Monetary Policy Challenge.

## ASSESSMENT

10 credits are internally assessed via a series of portfolio tasks throughout the year. 8 (or 14) credits are externally assessed across 3 Achievement Standards at the end of the year. The Macro Economics external paper will only be offered to selected students.

All Level 3 Economics standards contribute to University Entrance Literacy requirements in either reading or writing (or both).

Level 3 students will also be entered in the University of Auckland NZ Economics Competition.

## COURSE FEE

There will be a cost of approximately \$50.00 for a Level 3 Workbook package and an individual subscription to E-Learn Economics.

For more information, see Mrs Calverley.

# **ENGLISH - 301**

## **Academic English**

### **INTRODUCTION**

This course continues the academic English programme you will have successfully completed in 2015 and 2016.

### **COURSE CONTENT AND ASSESSMENT**

As in the previous two years, you will do all three English Externals – Written Text, Visual Text, and Unfamiliar Texts. Likewise you will have a similar Internal programme to what you are used to – Writing Portfolio, Speech, and using Critical Texts as a Lens, with the added possibility of Internal Credits from the Film Close Reading internal. This will give you a possible 24 Level 3 English Credits.

### **PREREQUISITES**

Satisfactory completion of 201 in 2016. This means at least 15 Credits, with one External Standard passed, and 12 Credits at Merit level. These Credits should be in either Reading or Writing standards. Your English teacher will make a recommendation as to which English course you should do in 2017.

For more information, see Mr Eade.

# **ENGLISH - 302**

## **General English**

### **INTRODUCTION**

This is mostly internally assessed Level 3 English course with one external: 3.2 Film Study for those who have had some success in English previously, and who wish to continue to study English. 302 has a more practical focus than the Academic Level 3 programme.

### **COURSE CONTENT AND ASSESSMENT**

Internal Assessments in Level 3 Writing OR Level 2 Writing Portfolio if this hasn't been completed, and you need the Credits for UE Literacy. Internals also in Speech, Film Analysis and Connections. This will give you approximately 16 Credits.

### **PREREQUISITES**

You will have satisfactorily completed English 201 or English 202. Your teacher will make a recommendation as to which English course you should do in 2017.

For more information, see Mr Eade.

# ENGLISH SCHOLARSHIP CLASS

## INTRODUCTION

Scholarship candidates are expected to demonstrate high-level critical thinking, abstraction and generalisation. Students who do well are capable of independent thought and have a flair for writing creative responses to text analysis questions.

## COURSE CONTENT AND ASSESSMENT

You will be following the normal 301 course for the first two terms until internal assessment is completed, but with additional required reading to be undertaken. These assessments consist of an internal film study; a critical study; a speech and writing portfolio. In Terms 3 and 4, the focus will shift to a focus on obtaining Scholarship English.

## PREREQUISITES

An Excellence Endorsement in English is required to get into this class or a strong recommendation from your Year 12 teacher.



# FRENCH

## **COURSE CONTENT**

At NCEA Level 3 you will continue to learn to speak, write, read and listen to higher and more complex levels of French.

You will reinforce and develop what you learnt at previous levels and learn lots of new language too, which will help to prepare you for your internal and external assessments.

You will study a variety of material from a range of topics e.g.:

- Immigration and racism
- Environmental issues
- The world of work
- An introduction to French literature, which will include a film study and other French texts
- Regions in France
- Well known French people

Your teacher will subscribe you to the Language Perfect vocabulary website—an invaluable tool for building your French vocabulary in preparation for the examinations. [www.languageperfect.co.nz](http://www.languageperfect.co.nz)

## **ASSESSMENT**

There are 5 Achievement Standards to be undertaken.

In total, 24 credits are offered towards National Certificate. 10 of these are assessed by external examination at the end of the year and involve listening comprehension and reading comprehension

14 credits will be assessed internally and include speaking and writing in French.

## **QUALIFICATION GAINED**

Full course completion—24 credits in NCEA French Level 3

## **This subject has links with—**

English, Geography, Economics, Travel and Tourism, Commerce and Trade

## **PRE REQUISITES**

12 credits at Level 2 French including credits from 1 external standard or at the discretion of the Head of Department.

## **NEXT STEP**

University courses in Humanities, Education, travel and Tourism, Commerce and Trade

## **COURSE COSTS (estimated)**

Workbook and resources \$32.00

For more information, see Mrs Brooks.

# **GEOGRAPHY**

## **INTRODUCTION**

The aim of Geography is to help students develop an understanding of the environment as a home for people. Processes, interactions and patterns are important aspects of this subject.

Digital tech

## **PREREQUISITES**

Course entry is at the discretion of the Head of Department.

## **CONTENT**

1. Natural Processes: The study of the Dunedin Coastal Environment and the interacting natural processes which shape this coastline
2. Cultural Process: Investigations into how Tourism Development has shaped the Queenstown environment
3. Global Study: The study of the global pattern of diamond production
4. Contemporary Issue: Investigation into the future of New Zealand's energy production
5. Guided Research: Collection, processing and presentation of researched material from the Dunedin Coastal Environment

## **ASSESSMENT**

This course is assessed through 5 Achievement Standards, worth 19 credits.

11 credits are assessed internally and 8 credits externally.

All standards earn literacy credits and there are 5 numeracy credits available in Level 3 Geography.

## **FIELD TRIPS**

There is a 3 day field trip to the Queenstown area, and a one day field trip to the Dunedin Coastal environment.

For more information, see Mr Hore or Mr Cushen.

# HISTORY

## INTRODUCTION

History enables students to understand their heritage and that of their community, society and nation. By examining the past it challenges them to think about continuity and change, similarities and differences, cause and effect. In the process students learn that the truth is often difficult to establish and that judgements should be supported by firm evidence and coherent argument. The course demands a higher level of reading, writing, thinking, knowledge and understanding than at Year 11 and 12. The attainment of Year 12 English Achievement Standards 2.2 and 2.6 on Close Reading and Transactional Writing would help to cope with the demands of this course.

## PREREQUISITES

12 credits from either Yr 12 History, English, Classics, or at the discretion of the Head of Department.

## CONTENT

### Title: Conflict

This year the course is a study and comparison of two conquests.

### Part A

The events that led to Maori signing the Treaty of Waitangi (1840). How aware were Maori in making their decision? A modern approach.

### Part B

Eugenics. Scientific racism and the impact of social Darwinism, looks at the origins of Nazi Germany's racial theories and how systematic the Eugenics movement was instituted worldwide.

## SKILLS

The course aims to develop further the three inter-related skills of research, interpretation and presentation. In particular students must be able to describe, analyse and evaluate. The use of quotes and footnotes and the correct presentation of bibliographies is taught in detail and is expected to be used in all internal assessment work.

## ASSESSMENT

This course is assessed using NCEA Level 3 standards in History drawn from the History Curriculum Statement. They describe the outcomes that students are expected to produce and define the standard to which they must perform. The course is made up of four Achievement Standards of 5 credits and one of 4, therefore a total of 24 credits. Three standards are internally assessed accounting for 9 credits, and three externally assessed.

For more information, see Mr Fielding.

# JAPANESE

## INTRODUCTION

Studying Japanese at the Year 13 level will enable students to broaden their employment options both in New Zealand and internationally and to develop an awareness of the interdependence of all people.

## PREREQUISITE

This course continues the work started in Year 12. Students must have 12 credits from Level 2 Japanese or be approved by the Head of Department.

## CONTENT

Students will learn up to the New Zealand Curriculum Level 8, communication functions, vocabulary and structures at NCEA Level 3.

### Topics

- Land and People
- Travel and Tourism
- Japan at Work
- Communications and the Media

## SKILLS

The main emphasis is on extending both verbal and written skills so that students become confident in communicating with native Japanese speakers in the contexts of trade, travel or tourism and in other professional, educational or social situations. Students who complete Level # Japanese can enter a University Japanese course at the 200-level in 2018.

## ASSESSMENT

There will be regular formative vocabulary and grammar tests throughout the year as well as practice in NCEA type tests to cover the skill of Listening and Reading.

There are five Achievement Standards in the course worth 24 credits in total.

For more information, see Mrs Marsh.

# MATHEMATICS – CALCULUS

## INTRODUCTION

This course is recommended to pupils who have a proven ability at the subject and who enjoy the rigours of mathematical analysis.

## PREREQUISITE

Year 12 pupils who have studied the 201 option and have attained a Merit Standard 91262 - Calculus and Achievement Standard 91264 Algebraic Methods. This course can be taken in conjunction with Statistics.

## CONTENT

- Differentiation-theory of techniques, applications
- Trigonometry - identities, applications
- Complex numbers introduction plus algebraic techniques
- Integration theory of processes, application, introduction to differential equations
- Conic Sections – an introduction
- Simultaneous Equations

## SKILLS

- Further develop mathematics with an emphasis on calculus
- Develop problem solving and communication skills
- Formulate problems in mathematical terms and solve these through logical, methodical and clearly presented arguments
- Increasingly come to terms with the nature and content of mathematics through mathematical reasoning.

## ASSESSMENT

Pupils can gain up to 21 credits from Achievement Standards. Conic Sections, Trigonometry and Simultaneous Equations are internally assessed, all other papers externally assessed.

## COURSE FEE

Students are expected to have an approved Graphics calculator.

For more information, see Mr McAuslan.

# MATHEMATICS – STATISTICS

## INTRODUCTION

This course is of interest to those pupils who intend to pursue a career that requires a knowledge of statistical processes.

## PREREQUISITES

Pupils in the Statistics option will need to have passed Achievement Standard – 91267 – Probability at Level 2 and possess a graphics calculator.

## CONTENT

Inference	(Internal)	4 credits
Probability	(External)	4 credits
Bivariate Data	(Internal)	4 credits
Simultaneous Equations	(Internal)	3 credits
Statistical Literacy	(External)	4 credits
Experiments	(Internal)	4 credits

## SKILLS

- Develop problem solving and communication skills
- Develop ability to conduct statistically based experiments and to draw valid conclusions from raw data
- Enhance ability to write reports

## ASSESSMENT

The 2 externally assessed Achievement Standards will be assessed by a 3 hour examination in November.

All assignments and tests must be completed, and they act as formal statements of the pupils' knowledge, understanding and ability.

## COURSE FEE

Students are expected to have an approved Graphics Calculator (\$130).

For more information, see Mr McAuslan or Mr Harbott.

# MATHEMATICS STATISTICS GENERAL

## INTRODUCTION

This course has been designed to cater for year 13 pupils who need to be able to apply mathematics to every day practical situations. The course will be taught through real-life applications using calculators and computers as tools. All units are at Level 3.

## PREREQUISITES

Entry to course will be upon recommendation of a pupil's year 12 teacher and parental consent. Students should have studied 202 Mathematics last year and possess a Graphics calculator. Course has 21 credits at level 3.

## CONTENT

- Bivariate data 4 credits
- Statistical Experiment 4 credits
- Time Series 4 credits
- Simultaneous Equations 3 credits
- Linear Programming 3 credits
- Critical path analysis 3 credits

## ASSESSMENT

Each unit will be assessed internally by Achievement or Standards up to 21 credits.

## COURSE REQUIREMENT

Graphics Calculator (\$130) would be useful.

For more information, see Mr McAuslan or Mr Koedyk.

# MATHEMATICS CALCULUS GENERAL

## INTRODUCTION

This course has been designed to cater for year 13 pupils who need to be able to apply mathematics to every day practical situations. The course will be taught through real-life applications using calculators and computers as tools. All standards are at Level 3.

## PREREQUISITES

Entry to course will be upon recommendation of a pupil's year 12 teacher and parental consent. Students should have studied 201 Mathematics last year and possess Achievement Standard 91267 Probability and Calculus 91264.

## CONTENT

- Conic Sections 3 credits
- Trigonometry 4 credits
- Differentiation 6 credits
- Simultaneous Equations 3 credits
- Linear Programming 3 credits
- Critical path analysis 3 credits

## ASSESSMENT

Each unit will be assessed internally and externally by Achievement or Standards up to 22 credits.

## COURSE REQUIREMENT

Students are expected to have a Graphics Calculator (\$130).

For more information, see Mr McAuslan or Mr Koedyk.



# MUSIC TECHNOLOGY

## INTRODUCTION

This course is a continuation on from Level 2 Music Technology and aims to provide the student with a comprehensive working knowledge of music recording, editing and notation applications and sound engineering skills.

This course can be a stand-alone course, on application, or can be taken in conjunction with Level 3 Music by taking a combination of Level 3 Music content (performance, composition or research) and Level 3 Music Technology.

## PREREQUISITES

It is essential for students to have taken Level 2 Music Technology/Music or have a thorough working knowledge of music creating and editing software applications.

## CONTENT

The course consists of up to three **internally assessed unit standards** all at which can be Achieved with Merit or Excellence.

US23730

Operate music sequencing, editing and music notation applications  
8 credits AME

US28007

Select and apply a range of processes to enhance sound in a performance  
4 credits AME

US28003

Research, develop and apply a stage lighting design concept for a given work  
6 credits AME

## ASSESSMENTS

All Music Technology standards are internally assessed by means of regular tests and assignments.

## ADDITIONAL

Students will complete their course of a minimum 20 credits from the 13 MUSIC course achievement standards.

All of the unit standards in the music technology course are eligible to count towards course endorsement.

For more information, see Ms Dryden.

# MUSIC

## INTRODUCTION

This course aims to provide the students with skills, understanding and values of a wide range of musical style through **performance, composition, research analysis and aural**.

## PREREQUISITES

It is essential for students to have taken Year 11 Music or be proficient on a musical instrument or on voice. All students enrolling in this course must be taking lessons on a musical instrument or voice either through the itinerant music lessons scheme or by a private tutor. As well, students are required to participate in a school (or other) instrumental or vocal group, or a band.

## MUSIC STUDIES - Choose up to three.

3.6	Demonstrate an understanding of harmonic and tonal procedures in a range of music scores.	External	(3 credits)
3.7	Analyse a substantial music work.	Internal	(4 credits)
3.8	Examine the influence of context on a substantial music work.	External	(4 credits)
3.9	Create two arrangements for an ensemble.	Internal	(4 credits)
3.10	Research a music topic.	Internal	(4 credits)

## PRACTICAL MUSIC - Choose three or more.

3.1	Perform two programmes as a featured soloist	Internal	(8 credits)
3.2	Perform two programmes as a featured soloist on a second instrument	Internal	(4 credits)
3.3	Perform two pieces as a member of a group	Internal	(4 credits)
3.4	Compose three pieces of music	Internal	(8 credits)
3.5	Integrate aural skills into written representation	External	(4 credits)

## ASSESSMENTS

Internal Assessments are by means of assignments, tests, assignments and performance throughout the year.

Students are required to compile their portfolio of compositions, including statements of intention and authenticity for final assessment.

External Assessments are by means of end of year examinations in term 4.

## ADDITIONAL

A course must comprise a minimum of 20 credits.

For more information, see Ms Dryden.

# OUTDOOR PURSUITS

## INTRODUCTION

King's High School has full accreditation with the Industry Training Organisation responsible for overseeing Outdoor Education, Sport and Fitness. This guarantees a quality course offering a wide range of challenging activities.

The Outdoor Pursuits Course will run for four hours per week. A full year will give students the opportunity to pass at least 22 credits at Level 3.

## PREREQUISITES

None

## OUTDOOR PURSUITS ON OFFER:

- Mountain Biking
- Surfing
- Risk Management
- Ice Skating/Ice Hockey
- Snowboarding/Skiing

## WHO IS ELIGIBLE?

Any Year 13 student who the Course Co-ordinator feels is likely to achieve most of the course aims. It should be emphasised that a student can take this course as well as taking 4 other Year 13 subjects, so it will not stop a student fulfilling their Level 3 N.C.E.A. objectives.

## COURSE FEE

As a lot of the course needs to be run off-campus i.e. The Hatherley, or at Long beach for Rock Climbing etc., there will be a fee of \$420 to cover transport costs, equipment hire, outside tutors etc. Plus there is an optional ski trip which will cost approximately \$350.

For more information, see Mr Davis.

# PHYSICAL EDUCATION

## INTRODUCTION

This course is designed for students with a serious academic aim in the area of Physical Education, particularly those looking to University or Polytechnic.

The aim of this course is to apply the knowledge and understanding required to enable you to develop the physical, social and mental skills required in today's physical activity settings. All units of work have a large practical weighting although the theory work within each unit also requires regular attention.

## PREREQUISITES

Completion of Level 12 Physical Education with at least 12 credits achieved. Each student's previous year's performance will be assessed prior to being accepted into this course.

## CONTENT

The course, depending on the unit of work being covered, can be spent in a classroom or out doing practical work or a mixture of the two. The course is made up of six modules of work:

- Leadership
- Evaluating a physical activity program
- Skill analysis
- Evaluating the effectiveness of performance improvement programme
- The issue of inactivity and obesity in New Zealand,
- Several practical components

## ASSESSMENT

The course is entirely internally assessed. Students complete Achievement Standards throughout the year by submitting assignments, and performing practical skills at the required level of ability. By the end of the year students will have been able to achieve up to 19 credits towards the N.C.E.A.

## COURSE FEE

There are 3 practical activities, which incur a cost to those who wish to participate in this course:

Fitness unit:	approximately \$20 for transport and pool entry
Golf unit:	approximately \$50 for transport, coaching and equipment
Leadership Unit:	approximately \$80 for transport and equipment use

For more information, see Mr Alderton and Mr Corkill.

# PHYSICS

## INTRODUCTION

This subject follows on from physics and mathematics in Year 12. A good mark in N.C.E.A. L3 Physics is an essential prerequisite for engineering, architecture and medical school. A good grounding in Physics is essential for any technical career and health sciences.

## PREREQUISITES

A minimum of 16 credits Level 2 Physics (including at least two passes in an external exam standard) or at the discretion of the Physics Head of Department. Entry into the Physics Scholarship Level 3 is through attaining Level 2 Physics with an Excellence endorsement.

## CONTENT

The following are the major course topics

- Mechanics
- Electricity and Magnetism
- Waves
- Atomic and Nuclear Physics

## SKILLS

By the end of the course students should be able to

- demonstrate an understanding of concepts, principles, and models e.g. *rotational inertia, resonance*
  - apply concepts and principles to explain physical phenomena, systems and devices e.g. *resonant circuits, nuclear reactors*
- appreciate the power and limitations of theories and models in physics e.g. *approximations in Young's interference, limitations of the Bohr theory*
- carry out practical investigations to determine relationships, patterns and trends in physical systems e.g. *how period varies with length in the simple pendulum, factors affecting moment of inertia*
  - carry out practical investigations to identify and explain applications of physical concepts and principles e.g. *wave motion in music instruments*

## ASSESSMENT

NCEA Level 3 Physics Achievement Standard.

This course is assessed through a combination of up to 6 Achievement Standards worth up to 26 credits.

## COURSE FEE

There may be a fee of \$30.00 for a Workbook.

For more information, see Mr Farry.

# PRO COOKING

## INTRODUCTION

Pro Cooking covers a range of standards including a Home Economics investigation into the world of multi-national food, a Food Technology project and two unit standards. A total of 24 level 3 credits are offered in this course.

## PREREQUISITES

Wearing a cooking hat is compulsory during kitchen work. Students need to have passed the food safety standard US167 to enter course.

## CONTENT

This is a Level 2 unit standard completed in year 12 Food and Nutrition but there may be an opportunity to take this standard after NCEA exams.

### Achievement Standards:

91469 Investigate the influence of Multinational  
Food Corporations on eating patterns in New Zealand (5 credits)

91643 Implement complex procedures to process a specified  
product (6 credits)

### Unit Standards:

US 18497 Demonstrate knowledge of Culinary, Products and  
Terms (8 credits)

US 13343 Demonstrate knowledge of Nutrition in Commercial  
Catering (5 credits)

## ASSESSMENT

All standards are internally assessed using both written and practical work.

## COURSE FEE

There will be a fee of \$260 for this course. This covers ingredients entry into industry training organisation accredited standards and the accompany workbooks.

For further information, see Mr McLean.

# TECHNOLOGY

## INTRODUCTION

Technology at Level 3 incorporates a practical approach to trade practices, processes and the research and analysis of trade related information.

The course allows pupils to find an issue that they can design a solution for, and build a prototype. They will then construct and evaluate their solutions to their design problems.

Students will submit a folio of work for marking. Achievement standards are incorporated in different areas of the course, and relate to students' needs.

## PREREQUISITE

Workshop Technology at year 12 (priority will be given to students with Merit and Excellent grades from Level 2 Technology), and preferably experience, and a desire and interest to pursue a trade related career in Engineering or allied trades.

## CONTENT

The course is based on modules in conjunction with appropriate standards.

Modules may include the following depending on the type of project chosen by each individual student:

- Welding techniques; gas, mig or arc
- Fitting and turning
- Construction techniques – Wood or Metal
- Finishing – polishing
- Bone carving
- Wood carving
- Forging
- Tool making
- Tempering techniques
- Furniture Making
- Surfboard Making

## ASSESSMENT

The course will be assessed through four Achievement Standards worth 20 credits in total, 16 credits are assessed internally and 4 credits externally.

## COURSE FEE

There will be a course fee of \$140.00, all student's projects are priced and any costing above this sum will be an additional charge.

For more information, see HOD Technology Mr McPherson.

# TE REO MĀORI

**TE REO MĀORI ME ŌNA TIKANGA** – Māori language and customs

**TAUMATA TUATORU** - Level Three

**HE REO WHAKATAKI** - An introduction

E aro atu ana ngā akoranga ki ngā kaupapa e whā o te Tohu Mātauranga Taumata Tuatoru.

The course will focus on the four parts of language assessed for Level Three NCEA.

- Kōrero - Oral
- Whakarongo - Aural Comprehension
- Pānui - Reading Comprehension
- Tuhituhi - Writing

**NGĀ WHAINGA** – Prerequisites

Kia piki mai te ākongā ki te Taumata Tuatoru, me tutuki i a ia ngā whiwhinga o te Taumata Tuarua. Mā Matua Komene te whakatau kia uru mai tētahi kāore anō kia whiwhi i ngā whiwhinga o Te Reo Māori Taumata Tuarua.

Entry is permitted for those who have achieved Level Two NCEA in Te Reo Māori.

Students who have not completed Level Two Te Reo Māori may do this course at the discretion of Matua Komene.

**NGĀ KAUPAPA** – Content

- NCEA Criteria
- Tikanga Māori
- Māori customs including Waiata, Haka, Karakia, Moteatea
- Te Awa Rere- Nā Ian & Shirley Cormack

**NGĀ PUKENGA** – Skills

- Kōrero - Oral
- Whakarongo - Aural Comprehension
- Pānui - Reading Comprehension
- Tuhituhi - Writing

**TE ĀHUA O TE MAHI NCEA**

- |   |   |                    |
|---|---|--------------------|
| 3.1: Whakarongo kia mōhio ki te reo o te ao whānui  | - | 4 Credits Internal |
| 3.2: Kōrero kia whakamahi i te reo o te ao whānui   | - | 6 Credits Internal |
| 3.3: Pānui kia mōhio ki te reo o te ao whānui       | - | 6 Credits External |
| 3.4: Tuhi i te reo o te ao whānui                   | - | 6 Credits External |
| 3.5: Waihanga tuhinga auaha i te reo o te ao whānui | - | 6 Credits Internal |

**COURSE FEE**

There will be a fee of \$20.00 for a Workbook.

For more information, see Matua Komene.



# TOURISM

## INTRODUCTION

The Tourism Industry is now New Zealand's most important economic sector. It employs over ten percent of our workforce. It is anticipated it will grow quickly in the next decade offering many opportunities for school leavers.

This course is primarily available for students with an interest in making a career in Tourism. It will lead to tourism studies that can be undertaken at a Polytechnic or University. The aim of the course is to acquire knowledge and understanding of customer service, the industry and its requirements and career options.

Students need to have a genuine interest in pursuing a career in the Tourism Industry to undertake this course.

## PREREQUISITES

Level 2 Tourism or an equivalent subject. Final course entry is at the discretion of the Head of Department.

## CONTENT

During the year the students will follow a course made up of the following Level 3 standards.

-	Destination Australia	5 credits
-	Destination Pacific Islands	5 credits
-	Destination New Zealand	5 credits
-	Economic Tourism	4 credits
-	NZ Tourist Destination	4 credits
	Total	23 credits

## ASSESSMENT

All standards are assessed internally throughout the year.

It should be noted that students can only use 14 Tourism credits towards their University Entrance as Tourism is a non-approved University Entrance subject.

For further information, see Mr Cushen.

# VISUAL ARTS - Art History

## **INTRODUCTION**

Art History is a course that will engage any student interested in the Visual World around them. It seeks to make sense of the prolific Visual Culture and give reasons why things are the way they are. It helps students to link contemporary to historic, photographic to painting. Students who are curious, analytical and socially aware will find Art History to be a subject they enjoy.

## **PRE REQUISITES**

There are no prerequisites only a willingness to work and an open mind.

## **CONTENT**

This course will focus on the rise of Modernism and Post Modernism across the 20th Century. Focussing on France, the United States, Germany and New Zealand. It will provide an artistic, social biographical, political or economic context in which to understand the works studied.

Students will look at some of the key Art movements such as Cubism, Abstract Expressionism, Expressionism, Pop Art, Maori Art, analyse specific Art works made by important Artists such as Picasso, Braque, Kandinsky, Pollock and McCahon, and to place them and the movement into a socially framed context.

## **ASSESSMENT**

This course is assessed through 3 internal standards worth 4 credits each and 3 external standards worth 4 credits each.

## **COURSE FEE**

There is no fee required for Art History.

For more information, see Mr Kennedy.

# VISUAL ARTS - Design

## INTRODUCTION

The aim is to develop an understanding of existing procedures and practices which underlie the making of art and design and the practice and extension of those in individual performance.

## PREREQUISITES

12 credits at Year 12 Visual Arts Achievement Standards in the field of Design, or at the discretion of the Head of Department.

## CONTENT

**Foundation skills** - students will work on several set projects related to a selection of the following: illustration, layout and typography, 3D design, company identity, fashion/costume design. They will work to a clearly defined brief as designers for clients considering parameters of such vital things as function, size, style, cost, materials and market. Students will be expected to critically assess the effectiveness of their own and others' work.

**Individual project** - students will undertake a series of related design projects in which they themselves have clearly defined the design problem. This will involve thorough research. The design solution will be communicated through drawings, models and/or finished art work.

**Compiling the examination folio** - students will select works representative of each stage of the working process to present in a three panel folio.

## ASSESSMENT

Level 3 Achievement Standards internal 3.1, 3.2, 3.3 and 3.4

## COURSE FEE

The senior art fee for 2017 is \$100.00. This covers the art pack containing most of the personal materials each student requires, as well as the costs involved in the preparation of the end of year folio. It also includes a contribution to other consumable items needed, but not in their packs.

For students involved in digital art work, the fee also contributions \$35.00 worth of printing to each students printing account.

For more information, see Mrs Sharma.

# VISUAL ARTS - Painting

## INTRODUCTION

The aim is to develop an understanding of existing procedures and practices which underlie the making of painting and the practice and extension of those in individual performance.

## PREREQUISITES

Year 12 Visual Arts Achievement Standards in the field of Painting is preferable, or at the discretion of the Head of Department

## CONTENT AND SKILLS

- Drawing - revision of the basic skills
- Drawing to painting - students interpret drawings into painting
- Individual project - students work on thematic study of their own choice. They will use at least one established form of painting and make reference to relevant recent and established practice to provide original work. They will develop sequences of drawings, small works and finished paintings.
- Compiling the examination folio - students will select appropriate works from this project and present these in a three panel folio.

## ASSESSMENT

Level 3 Achievement Standards internal 3.1, 3.2 and 3.3 and external 3.4

## COURSE FEE

The senior art fee for 2017 is \$100.00. This covers the personal materials each student requires, as well as the costs involved in the preparation of the end of year folio. It also includes a contribution to other consumable items needed, but not in their packs.

For more information, see Mr Kennedy.

# VISUAL ARTS - Photography

## INTRODUCTION

The aim is to develop an understanding of existing procedures and practices which underlie the making of Artwork in a photographic medium and the practice and extension of that into individual performance.

## PREREQUISITES

A minimum of 16 Year 12 Visual Arts Achievement Standards in the field of Photography or by negotiation with the HOD of Art. Having access to a Digital SLR Camera is of benefit although not essential as the Art Department does have some to loan out.

## CONTENT

- **Foundation skills.** Students will work on extending those skills established during the year 12 course and extending those as required for their individual project.
- **Individual project.** Students will undertake an individually negotiated project. This will be grounded in research and extended through practical investigation. Students must be prepared to work outside of class hours.
- **Compiling the examination folio.** Students will select works representative of each stage of the working process.

## ASSESSMENT

Level 3 Achievement Standards 3.2, 3.3 and 3.4.  
3.1 is optional but strongly recommended.

## COURSE FEE

The senior art fee for 2017 is \$100.00. This covers the art pack containing most of the personal materials each student will require as well as the costs involved in preparation for the end of year folio. It also involves a contribution to materials provided but not in their packs.

For students involved in printing digital work, the fee also contributes \$35 worth of printing to each students printing account. For careful students this should be enough, but some may require a top up when their folio is being printed.

For more information, see Mrs Sharma or Mr Kennedy.

# GATEWAY PROGRAMME

## Aims

- To provide a range of structured learning opportunities in the workplace
- To deliver hands on practical learning that leads to nationally recognised qualifications
- To develop an individual training plan for each student detailing the learning and standards to be achieved in the workplace
- To gain at least 10 Credits in the workplace

## What is Gateway

The Gateway programme is offered to Year 12 and 13 students who are interested in a career in a particular industry and are ready to learn and work in a workplace. It can also, lead on to further Tertiary study programmes.

Gateway students should expect to spend one day per week during term time at their work placement (maximum of 20 days per year). The skills you learn on the job are assessed for credits on the National Qualifications Framework and these credits can count towards both industry qualifications and NCEA.

The workplace learning is incorporated into the students' individual programme. Skills are developed in the workplace to complement the students' school based learning.

All students wanting to undertake Gateway in 2017 will make an application in week 1, Term 4 and will be individually interviewed.

**Gateway is a partnership between King's High School, students and parents.**

For more information, see Mr Heenan – Gateway Co-ordinator, or Ms May.

# STAR

## Secondary Tertiary Alignment Resource

STAR provides extra funding to secondary schools so that they are able to provide access to non-traditional courses that may help senior secondary students sort out their future:

- Pathways to employment after leaving school
- Possible options for further education at a tertiary institution

STAR courses may be provided within school, as a block 2 to 3 day course, if demand is sufficient, or they may involve you attending one organised by an external provider

- It provides a chance to try out possible careers
- It provides a chance to gain new skills that are appropriate to the workplace
- It can lead to qualifications
- It helps to create a curriculum that is more relevant to working life
- It can provide a practical, “hands on” work-based experience
- It can allow students to experience a different learning environment
- The courses are available at no cost to the students

If you think that STAR may be useful to you then you must approach:

**The Careers Advisor - Ms Schaumann**  
**The STAR Co-ordinator - Ms May**