

**KINGSCLIFF
HIGH SCHOOL**



ACHIEVEMENT THROUGH ENDEAVOUR

STAGE 5

ELECTIVES HANDBOOK

2020

YEARS 9 AND 10 YOUR STUDY PATTERN AT KINGSCLIFF HIGH SCHOOL

The courses which you have been studying in Stage 4 (Years 7 and 8) form the basis of your general education at high school. In Stage 4, you have had learning experiences in English, Mathematics, Science, History, Geography, Music, Art, Design and Technology, Japanese, Drama, Dance, Personal Development, Health and Physical Education, Commerce and Information and Communication Technologies (ICT).

In Stage 5 (Years 9 and 10), the NSW Education Standards Authority (NESA), and the NSW Department of Education rules require you to:

- 1) Continue your studies in:
English
Mathematics
Science
History and Geography
Personal Development, Health and Physical Education (PDHPE)
- 2) Participate in Sport, which is **compulsory**, and
- 3) Study at least 400 hours of elective courses

DEFINITION OF TERMS:

STAGE:

A student's six years of education at high school are divided into three stages:

Stage 4	-	Years 7 and 8
Stage 5	-	Years 9 and 10
Stage 6	-	Years 11 and 12

SEMESTER:

A period of time equal to half a school year – ie. two (2) terms

PRE-REQUISITES:

The pre-requisites are the conditions that have to be met before you can select a course.

For example, successful completion of Year 9 Japanese is a pre-requisite for studying Japanese in Year 10.

CHOOSING YOUR ELECTIVES:

READ THIS PAGE CAREFULLY!

You need to choose courses that are suited to your strengths and interests. You should also consider courses which may be useful to you in future years, not only for a job, but useful in all aspects of your life.

Year 9 You need to study five (5) elective courses.

Year 10 You need to study three (3) elective courses (from the five (5) you studied in Year 9) for Semester 1, and two (2) from the same three (3) for Semester 2.

You need to continue courses in Year 10 which you have studied in Year 9.

Choose carefully, as it may not be possible for you to change courses during the year.

No course changes are possible after Week 3 of any semester.

Your Year Adviser, Stage Coordinator and the Careers Adviser will be available to advise you about your course choices. You may also talk to teachers of the courses you are considering.

Please also note:

Students may study up to a **maximum** of two courses in Industrial Technology.
eg IT Timber, IT Metal, IT Engineering, IT Electronics or IT Multimedia.

Our school's capacity to run some classes is limited by facilities available. For example, we have two kitchens, so only two Food Technology classes can run on any timetable line.

Subject lines will be set up so that most students receive most of their choices. However, it is possible that some students' selected patterns of courses will not fit the subject lines, and reserve choices may have to be used. Should these also not fit the subject lines, students will be interviewed individually.

Elective course fees: Many elective courses require extra resources, such as ingredients for Food Technology and wood for Industrial Technology – Timber. Each course has had to justify the fees charged with the Principal and every effort is made to keep fees as low as possible.

Please take course fees into consideration when choosing courses. As elective courses are made by student choice, the fees are compulsory. **COURSE FEES MUST BE PAID.**

CHOOSE CAREFULLY AND RETURN YOUR CHOICE SHEET WEDNESDAY 11 SEPTEMBER 2019

YOU MAY NOT HAVE THE OPPORTUNITY TO CHANGE AT A LATER DATE

ELECTIVE COURSES Years 9 and 10

YEAR 9	YEAR 10
Agricultural Technology [AG]	Agricultural Technology [AG]
Child Studies [CS]	Child Studies [CS]
Commerce [CM]	Commerce [CM]
Dance [DA]	Dance [DA]
Drama [DR]	Drama [DR]
Food Technology [FT]	Food Technology [FT]
Global Studies (Elective Geography) [GS]	Global Studies (Elective Geography) [GS]
Graphics Technology [GT]	Graphics Technology [GT]
Industrial Technology – Electronics [TE]	Industrial Technology – Electronics [TE]
Industrial Technology – Engineering [TN]	Industrial Technology – Engineering [TN]
Industrial Technology – Metal [TM]	Industrial Technology – Metal [TM]
Industrial Technology – Multimedia [MM]	Industrial Technology – Multimedia [MM]
Industrial Technology – Timber [TT]	Industrial Technology – Timber [TT]
Information and Software Technology [IS]	Information and Software Technology [IS]
International Studies [IN]	International Studies [IN]
Japanese [JA]	Japanese [JA]
Marine and Aquaculture Technology [MT]	Marine and Aquaculture Technology [MT]
Music [MU]	Music [MU]
Photographic and Digital Media [PG]	Photographic and Digital Media [PG]
Physical Activity and Sports Studies [PA]	Physical Activity and Sports Studies [PA]
Textiles Technology [TX]	Textiles Technology [TX]
Visual Arts [VA]	Visual Arts [AR]
Visual Design [VD]	Visual Design [VD]

READ THE DESCRIPTIONS OF THE COURSES CAREFULLY BEFORE YOU CHOOSE

<p>Year 9 You need to choose five (5) courses You will do each course for one (1) semester</p>	<p>Year 10 You will do three (3) electives in Semester 1 and 2 (from the same three (3) in Semester 2)</p>
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CHOOSE CAREFULLY AND RETURN YOUR CHOICE SHEET WEDNESDAY 11 SEPTEMBER 2019

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TITLE: AGRICULTURAL TECHNOLOGY 1, 2 and 3
CONTRIBUTION: \$20.00

The study of Agricultural Technology will allow students to:

- Deal with interactions of plants, animals and environment
- Learn about plant production, beekeeping and aquaculture
- Do vegetable gardening, beekeeping, animal and plant production
- Do independent learning projects
- Focus on specific management of genetics, nutrition, climate, disease and how they interact with the environment, both physical and socio-cultural
- Do projects (either independently or in small groups) based on the theory and practice around the management of some form of agricultural or related production

TITLE: CHILD STUDIES 1, 2 and 3
CONTRIBUTION: \$10.00 per Semester

The study of Child Studies 1, 2 and 3 will allow students to:

- Develop an understanding of child development from preconception through to and including the early years (0-8 years).

The content includes the following:

- Preparing for parenthood
- Conception to birth
- Family interactions
- Newborn care
- Growth and development
- Play and the developing child
- Health and safety in childhood
- Food and nutrition in childhood
- Children and culture
- Media and technology in childhood
- Aboriginal cultures and childhood
- The diverse needs of children
- Childcare services and career opportunities

Child Studies provides a foundation for a wide range of study options in and beyond school and also a range of vocational pathways that support and enhance the wellbeing of children. Study of this course will also support young people engaged in voluntary caring, supervision and child support roles and in formal work opportunities such as childcare and education.

TITLE: COMMERCE 1

Commerce 1 is a one semester course which helps students understand and participate in our ever changing commercial world.

The study of Commerce 1 will allow students to:

- Cover employment; finding a job, rights at work and working conditions
- Cover travel; preparing your travel adventure
- Cover 'You and the Law'

Computer applications and fieldwork will be part of your Commerce experience. The study of Commerce in Years 9 and 10 provides a useful foundation for senior courses such as Economics, Business Studies, Legal Studies, Aboriginal Studies and Society and Culture.

TITLE: COMMERCE 2

The study of Commerce 2 will allow students to:

- Cover buying wisely
- Cover getting a loan
- Cover advertising and you
- Cover saving for the future

TITLE: COMMERCE 3

The study of Commerce 3 will allow students to:

- Move out: renting, bonds and buying a car
- Have your say: you in our democracy
- Understand - you as a volunteer
- Understand how our economy works

TITLE: DANCE SEMESTER 1, 2 and 3

CONTRIBUTION: \$10.00 per Semester

The study of Dance will allow students to:

- Perform movement with technique
- Compose movement that is original
- Appreciate different dance styles and dance works
- Perform for school productions

No prior experience in dance is necessary

TITLE: DRAMA SEMESTER 2 and 3
CONTRIBUTION: \$10.00 per Semester

The study of Drama will allow students to:

- Participate in the creation of drama and theatre process work
- Develop and explore imagining and creating fictional situations in both dramatic and theatrical environments using improvisation and playbuilding
- Actively engage in acting and performing drama and theatre for difference audiences
- Respond to, inquire into, investigate and critically study a range of drama and theatre experiences

TITLE: FOOD TECHNOLOGY 1, 2 and 3
CONTRIBUTION: \$40.00 per Semester

The study of Food Technology will allow students to:

- Gain an understanding of nutrition in order to make effective personal decisions about food
- Investigate food through practical 'hands on' activities, which include designing and preparing a variety of food products
- Understand the nutritional requirements of individuals with special needs including children, the elderly, and diabetics
- Gain knowledge about the production, processing and marketing of food
- Study the impact of technology upon food processing
- Discover product innovations and food trends
- Experience food for special occasions celebrated around the world
- Explore the diversity of food in Australia

The practical applications of this course will provide for both vocational and general life experience.

TITLE: GLOBAL STUDIES (ELECTIVE GEORGRAPHY)

The aim of Geography Elective is to stimulate students' interest in and engagement with the world. Through geographical inquiry they develop an understanding of the interactions between people, places and environments across a range of scales and contemporary geographical issues in order to become informed, responsible and active citizens.

Topics studied include:

- oceanography
- global citizenship
- political geography

The practical applications of this course will provide for both vocational and general life experience

TITLE: GRAPHICS TECHNOLOGY 1, 2 and 3
CONTRIBUTION: \$10.00 per Semester

The study of Graphics Technology 1, 2 and 3 will allow students to:

In Semester 1, students will develop technical drawing skills to produce a variety of drawings using computer aided drawing and manual drawing techniques. The industry standard CAD package Fusion 360 along with Sketchup Pro is used. Students will also have the opportunity to develop functional prototypes using the school 3D Printers. In addition, students will be able to use Adobe Illustrator and the laser engraving machine to produce functional designs from manual drawings produced in class.

Semesters 2 and 3 include Architectural Drawing, Cabinet and Furniture Drawing, Engineering Drawing and Computer Aided Drawing to Australian Standards.

TITLE: INDUSTRIAL TECHNOLOGY – ELECTRONICS 1
CONTRIBUTION: \$40.00 per Semester

The study of Industrial Technology – Electronics 1 will allow students to:

- Recognise and use basic electronics components to build working projects
- Learn the principles of electronics and how things work
- Construct working cases for projects using Computer Aided Drawing and 3D Printing

TITLE: INDUSTRIAL TECHNOLOGY – ELECTRONICS 2
CONTRIBUTION: \$40.00 per Semester

The study of Industrial Technology – Electronics 2 will allow students to:

- Build on the skills and knowledge from Electronics 1
- Learn how to solder electronic circuits using a variety of methods
- Build more complex projects (Electronic Dice) and construct cases using 3D Printing

TITLE: INDUSTRIAL TECHNOLOGY – ELECTRONICS 3
CONTRIBUTION: \$40.00 per Semester

The study of Industrial Technology – Electronics 3 will allow students to:

- Build on the skills and knowledge from Electronics 1 and 2
- Learn about logic and integrated circuits
- Construct programmable electronics projects using Arduino

TITLE: INDUSTRIAL TECHNOLOGY – ENGINEERING 1
CONTRIBUTION: \$40.00 per Semester

The study of Industrial Technology – Engineering 1 will allow students to:

- Learn a variety of skills and knowledge that relate to engineered structures
- Design, construct and test scaled engineered structures (Earthquake Tower or Bridge and a Designer Metal Bracket)
- Learn about the properties of materials and use a variety of tools and equipment to construct projects
- Determine the effects of forces on engineered structures
- Read, interpret and produce simple engineered drawings and computer aided drawings

TITLE: INDUSTRIAL TECHNOLOGY – ENGINEERING 2
CONTRIBUTION: \$40.00 per Semester

The study of Industrial Technology – Engineering 2 will allow students to:

- Build on the skills and knowledge from Engineering 1
- Design and build mechanised projects (Trebuchet and/or Co2 Dragster) based on an understanding of materials and mechanisms
- Examine materials use in Engineered Products and Mechanisms
- Calculate mechanical advantage, efficiency and velocity ratios in engineered mechanisms
- Prepare engineering reports, including engineering drawings and the analysis of experiments

TITLE: INDUSTRIAL TECHNOLOGY – ENGINEERING 3
CONTRIBUTION: \$40.00 per Semester

The study of Industrial Technology – Engineering 3 will allow students to:

- Build on the skills and knowledge from Engineering 1 and 2
- Study control systems and materials used to make hydraulics, mechanical and electronic systems
- Design and construct electronic control systems using robotics and/or Arduino Programmable Logic Controllers
- Study alternative energy systems and design and construct a solar powered project
- Design functional projects using CAD software and 3D printing
- Examine the roles of Engineers and potential pathways to employment

TITLE: INDUSTRIAL TECHNOLOGY – METAL 1, 2 and 3
CONTRIBUTION: \$40.00 per Semester

The study of Industrial Technology – Metal will allow students to:

- Develop practical skills using basic hand tools and power tools
- Construct a range of projects including; sheet metal projects (Toolbox) and fabricated projects (nut cracker and folding camping barbecue)
- Use machines such as the Metal Lathe to turn parts for projects
- Learn to weld using Oxy-Acetylene and MIG Welding
- Produce project design folios including research, design and planning, along with manual and CAD drawings of projects
- Study processes, materials and technologies and the impacts of the metals industry

TITLE: INDUSTRIAL TECHNOLOGY – MULTIMEDIA 1, 2 and 3
CONTRIBUTION: \$25.00 per Semester

This course gives students multimedia skills that can be used in existing and yet to be developed career paths well into the next century.

The study of Industrial Technology – Multimedia 1, 2 and 3 will allow students to:

- Create projects using various multimedia tools, including animation (Animate), games, still pictures (Photoshop), 3D graphics, video (Premier Pro), websites (Notepad++), and audio (Audition)
- Use hardware including HD video cameras, still cameras and scanners
- Create projects to be output to websites, DVD's and mobile phones
- Develop skills in digital project design through the development of simple design folios

TITLE: INDUSTRIAL TECHNOLOGY – TIMBER I
CONTRIBUTION: \$40.00 per Semester

This subject is designed to build basic skills as applicable in cabinet and furniture making industries, carpentry and timber related industries. The study of Industrial Technology - Timber involves:

- Design, planning and construction skills in making a mantel clock, including the use of computer aided drawing and manual drawing to plan the project
- Developing skills in using fixed machines such as the Wood Lathe
- Use portable power tools including the Sliding Router Table and Finger Joiner
- Develop project folios to document design modifications, research and planning
- Study processes, materials and technologies and the impacts of the timber industry

TITLE: INDUSTRIAL TECHNOLOGY – TIMBER II
CONTRIBUTION: \$40.00 per Semester

This course will allow students to build upon and refine skills developed in Timber I. The study of Industrial Technology - Timber involves:

- Design, planning and construction skills to produce a hall or bedside table
- The use of manual and computer aided drawing to plan the project
- Developing skills in using fixed machines such as the Mortising Machine and Wood Lathe
- Developing skills in the use of portable power tools such as the Domino Joiner, Biscuit Joiner and Portable Router
- Producing a project folio to document research, design, project planning and construction
- Study processes, materials and technologies and the impacts of the timber industry

TITLE: INDUSTRIAL TECHNOLOGY – TIMBER III
CONTRIBUTION: \$40.00 per Semester

Skills are further developed in this unit. The study of Industrial Technology Timber involves:

- Researching, designing and planning a jewellery box (or similar) based on the needs and interest of the student
- All practical skills developed in the previous semesters will be utilised and extended upon

TITLE: INFORMATION AND SOFTWARE TECHNOLOGY
Contribution: \$25.00 per Semester

The study of Information and Software Technology Years 7–10 assists students to develop the knowledge, understanding and skills to solve problems in real life contexts. Through experiential and collaborative tasks, students engage in processes of analysing, designing, producing, testing, documenting, implementing and evaluating information and software technology-based solutions. Creative, critical and meta-cognitive thinking skills are developed through students' practical involvement in projects.

A number of practical projects are completed including but not limited to:

- A swipe gallery phone app
- Copter game app
- Guessing game program
- Responsive HTML and Lightbox photo gallery using HTML5 and CSS

TITLE: INTERNATIONAL STUDIES 1 and 2

The study of International Studies 1 and 2 will allow students to:

- Look closely at the interesting aspects of the lives of people in other countries, and comparing these to how we live in Australia
- Have the opportunity to learn about how people in different parts of the world celebrate their special days, the sports they play, the types of food they eat, their family lives and the things that are important to them
- Learn via practical and interactive activities, excursions, individual and group research projects and film studies

With the increasing internationalisation of the world, the ability to speak another language is a valuable asset, both individually and nationally. At Kingscliff High School, we offer Japanese to give our students the opportunity to acquire an Asian language.

TITLE: JAPANESE SEMESTERS 1, 2 and 3
CONTRIBUTION: \$15.00 per semester (Year 9)
\$20.00 per semester (Year 10)

The study of Japanese will allow students to:

- Learn to speak Japanese, understand spoken Japanese and read and write Japanese script, focusing on using Japanese in Australia and when travelling in Japan
- Learning about Japanese people, their country and customs is also important
- Extra opportunities to practice using your Japanese are available through pen friends, email pals and with Japanese visitors

Each year a number of Year 10 Japanese students will have the opportunity to participate in a three month exchange to our sister school in Japan.

Successful completion of Year 9 Japanese is a pre-requisite for Year 10 Japanese.

TITLE: MARINE AND AQUACULTURE TECHNOLOGY 1, 2 and 3
CONTRIBUTION: \$25.00 per Semester
Students must supply their own mask, snorkel and fins, red t-shirt or rash shirt
Water Safety Skills (cost of pool admittance x 2)

The study of Marine and Aquaculture Technology will allow students to:

- Learn water safety and First Aid
- Explore fish, dangerous marine organisms and marine life in an estuarine environment
- Learn the theory of diving and physiology of skin diving and practical components of skin diving
- Study rock platforms, aquariums design and coastal management
- Study marine life such as marine mammals, mangroves and microscopic marine organisms
- Snorkelling and fishing at Cudgen Creek

TITLE: MUSIC 1, 2 and 3
CONTRIBUTION: \$15.00 per Semester

This course will give students the opportunity of studying music in much greater depth than was possible in Years 7 and 8.

The study of Music will allow students to:

- Perform music and develop both soloist and ensemble skills in a variety of genres
- Listen to and learn about a wide variety of different musical styles
- Participate in instrumental and vocal class performance
- Compose music in a variety of styles using technology

TITLE: PHOTOGRAPHIC AND DIGITAL MEDIA 1, 2 and 3
CONTRIBUTION: \$20.00 per Semester

This course is relevant for students who are interested in the new advances in Photographic and Digital Media, or who wish to use them in the workplace.

The study of Photographic and Digital Media 1,2 and 3 will allow students to:

- Produce many works using a digital camera and other photographic forms and techniques, which would be suitable for commercial job application
- Use a range of hand and computer altered and generated photographic and printed forms
- Investigate the work of a range of artists such as photographers, designers, filmmakers, videographers, digital artists and animators

TITLE: PHYSICAL ACTIVITY AND SPORTS STUDIES 1, 2 and 3
CONTRIBUTION: \$10 per semester

The study of Physical Activity and Sports Studies 1, 2 and 3 will allow students to:

- Develop an appreciation of movement, as well as the development of physical skills and a willingness to participate in regular physical activity.
- Participate in practical units including Badminton, Oztag, European handball, ultimate frisby, softcrosse, American Football and other international games, fitness testing, AFL, and complete the Bronze Medallion Surf Life Saving Award.
- Do theoretical units including: factors affecting sports performance; life saving, first aid, fitness: components, testing and programming to improve; energy systems and resistance training.

Requirements: A change of clothing (appropriate for physical activity) for practical lessons - some charges for outside venues, varying from no cost to three dollars per week.

TITLE: TEXTILES TECHNOLOGY 1, 2 and 3
CONTRIBUTION: \$20.00 per Semester plus cost of own materials for projects

The study of Textiles Technology 1, 2 and 3 will allow students to:

- Learn how to select projects, patterns and fabrics to meet personal needs
- Display creativity whilst developing a range of practical skills relating to textiles
- Conduct research into fibres, yarns and fabrics
- Experiment with and apply design using the elements and principles
- Use computerised sewing machines in the construction of two (2) projects per semester
- Submit a portfolio to accompany project work

The practical applications of this course will provide for both vocational and general life experience.

TITLE: VISUAL ARTS 1, 2 and 3
CONTRIBUTION: \$40 per Semester (Year 9)
\$40 per Semester (Year 10)

The Visual Arts Year 9-10 course offers students an exciting opportunity to continue experiencing and mastering a wide variety of art forms from painting to digital, sculpture to film. Visual Arts develops a student's creativity, intellectual and practical autonomy, reflective action, empathy, critical judgement and understanding. Visual Arts plays an important role in the social, cultural and spiritual lives of students. It offers a wide range of opportunities for students to develop their own interests, to be self-motivated and active learners who can take responsibility for and continue their own learning in school and post-school settings. It is vital for students to develop a sensory awareness, powers of visual expression and communication, an understanding of visual traditions and the potential to think and act creatively. Visual Arts provides a valuable background for all students contemplating any career where acute observation, critical analysis, brain-hand-eye co-ordination/dexterity and creative problem-solving are necessary.

The skills and knowledge taught and the values formed in Visual Arts will benefit those seeking a future in art and design-related industries and will also prepare students for vocational fields such as journalism, sociology, law, medicine and dentistry, by providing opportunities to develop their social and cultural awareness, observation skills and empathy and mental/manual dexterity. Students with a background in Visual Arts may have an advantage in other curriculum areas such as History and English.

There are three components to the Visual Arts course: practical, historical and critical. Art Study incorporates Historical Traditions, Theory of Practice and Critical Study. Practical activities are integrated with historical (encouraging an understanding of the social cultural significance) and critical study (which develops the student's ability to respond to and appreciate works of art.)

Students will have the opportunity in Art Practice to explore:

Digital imaging, painting, printmaking, drawing, sculpture, applied design, ceramics, cartooning, animation, installation, film, site-specific art, studio photography.

Requirements: Visual Arts Process Diary, pencils and own protective clothing

TITLE: VISUAL DESIGN 1, 2 and 3
CONTRIBUTION: \$30 per Semester

The focus of this course is on making functional pottery and the function of advertising. The study of Visual Design 1, 2 and 3 will allow students to:

- Study a range of commercial practices of designing objects in the visual arts in different times and places, they will look at the power of publications (magazines and newspapers)
- Understand how art can represent ideas and issues related to what is happening in the world
- Construct a functional clay object for a set function
- Interpret and explain the practice of designers who make objects for mass and individual appeal (like Billabong)
- Design and make a range of identity designs and promotional material such as logos, symbols, brochures, font designs, posters, and a print publication/magazine by using layout, text and image
- Use computer generated images to create magazine covers and posters

Requirements: Display folder, pencils and own protective clothing

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