

**KINGSCLIFF
HIGH SCHOOL**



ACHIEVEMENT THROUGH ENDEAVOUR

**STAGE 5
ELECTIVES HANDBOOK 2023**

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YEARS 9 AND 10 (STAGE 5) - 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 in Stage 5.
 - At least 200 hours of these must be Board Developed Courses (BDC).
 - The remaining 200 hours can then come from BDCs or NSW Department of Education approved elective courses (DAEC).
 - **Note:** DAECs will not appear on a Record of School Achievement (RoSA).

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.

Mathematics Substages

The Mathematics course splits into three (3) common pathways in Stage 5. These 'substages' are designed to accommodate all students who may be at different points in their mathematical journeys.

As Mathematics is compulsory in Stage 5, all students are required to select one (1) from the three (3) Mathematics substages.

READ THIS PAGE CAREFULLY!

CHOOSING YOUR ELECTIVES

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 two (2) 200 hour courses that are continuous across Year 9 and 10, as well as one (1) 100 hour course studied across Year 9 only and one (1) Mathematics substage.

Year 10

- You need to continue the two (2) 200 hour courses in Year 10 which you have studied in Year 9. You will choose a NEW 100 hour course to study across Year 10 and drop the 100hour course you 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 5 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 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 / MATERIALS CONTRIBUTIONS

- Elective Materials Contributions will apply for students taking subjects as indicated in the contributions/payments schedule in the Kingscliff High School Handbook.
- Costs are indicated next to the subjects detailed in this booklet.
- 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. Elective course fees are determined in consultation with the school community as part of the school budget process
- Students and their families should carefully consider the elective fees attached to some of our elective courses before making final choices. These fees cover the cost of resources for specific electives and their curriculum requirements. Any concerns about elective fees should be addressed to the school before making any final elective choices.

**CHOOSE CAREFULLY AND RETURN YOUR CHOICE SHEET BY:
MONDAY 15 AUGUST 2022**

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

READ CAREFULLY – INFORMATION RE SUBJECT SELECTION

Year 9

You need to study two (2) 200 hour courses that are continuous across Year 9 and 10, as well as one (1) 100 hour course studied across Year 9 only and one (1) Mathematics substage.

Year 10

You need to continue the two (2) 200 hour courses in Year 10 which you have studied in Year 9. You will choose a NEW 100 hour course to study across Year 10 and drop the 100 hour course you studied in Year 9.

MATHEMATICS SUBSTAGES

Year 9	Year 10
You need to choose one (1) Mathematics substage (see further details below)	You will continue the Mathematics substage you selected in Year 9
Mathematics Substages Mathematics Standard 1 [5.1] Mathematics Standard 2 [5.2] Mathematics Advanced [5.3]	Mathematics Substages Mathematics Standard 1 [5.1] Mathematics Standard 2 [5.2] Mathematics Advanced [5.3]

When choosing a Mathematics substage to study in Stage 5, students need to make an honest assessment of their current understanding of mathematics. They also need to consider the courses of study they plan to follow beyond Year 10. Students should seek guidance from their current Mathematics teacher if they are unsure of what substage best suits their needs.

- **Mathematics Standard 1 [5.1]** is designed to assist in meeting the needs of students who are continuing to work towards the achievement of Stage 4 outcomes when they enter Year 9
- **Mathematics Standard 2 [5.2]** builds on the content of Stage 5.1 and is designed to assist in meeting the needs of students who plan to study **Standard Mathematics** in Stage 6
- **Mathematics Advanced [5.3]** builds on the content of Stage 5.2 and is designed to assist in meeting the needs of students who plan to study **Advanced Mathematics and above** in Stage 6

CHOOSE FROM THE FOLLOWING ELECTIVE COURSES

<p><u>YEAR 9</u></p> <p>Choose two (2) 200-hour courses that are continuous across Year 9 and 10</p> <p>Choose one (1) 100-hour course studied in Year 9 only</p>	<p><u>YEAR 10</u></p> <p>Continue the two (2) 200-hour courses in Year 10 which you have studied in Year 9.</p> <p>Choose a NEW 100-hour course to study across Year 10 and drop the 100-hour course you studied in Year 9.</p>
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<p><u>YEAR 9</u></p> <p><u>BOARD DEVELOPED ELECTIVES (Appear on ROSA)</u></p> <p>Agricultural Technology [AGR] Child Studies [CST] Commerce [COM] Cultural Studies [CUS] Dance [DAN] Drama [DRA] Elective History [HIS] Food Technology [FOO] Global Studies [GLO] Human Powered Vehicle Engineering [HPV] Industrial Technology – Engineering [ENG] Industrial Technology – Metal [MET] Industrial Technology – Multimedia [MMT] Industrial Technology – Timber [TTT] Information and Software Technology [IST] Japanese [JAP] Marine and Aquaculture Technology [MAR] Music [MUS] Photographic and Digital Media [PHO] Physical Activity and Sports Studies [PAS] Textiles Technology [TAD] Visual Arts [ART] Visual Design [VDN]</p> <p><u>NSW DEPARTMENT OF EDUCATION APPROVED ELECTIVES</u></p> <p><u>(DO NOT appear on ROSA)</u></p> <p>Journalism [JOU] iSTEM [STM]</p>	<p><u>YEAR 10</u></p> <p><u>BOARD DEVELOPED ELECTIVES (Appear on ROSA)</u></p> <p>Agricultural Technology [AGR] Child Studies [CST] Commerce [COM] Cultural Studies [CUS] Dance [DAN] Drama [DRA] Food Technology [FOO] Global Studies [GST] Human Powered Vehicle Engineering [HPV] Industrial Technology – Engineering [ENG] Industrial Technology – Metal [MET] Industrial Technology – Multimedia [MMT] Industrial Technology – Timber [TTT] Information and Software Technology [IST] Japanese [JAP] Marine and Aquaculture Technology [MAR] Music [MUS] Photographic and Digital Media [PHO] Physical Activity and Sports Studies [PAS] Textiles Technology [TAD] Visual Arts [ART] Visual Design [VDN]</p> <p><u>NSW DEPARTMENT OF EDUCATION APPROVED ELECTIVES</u></p> <p><u>(DO NOT appear on ROSA)</u></p> <p>Journalism [JOU] iSTEM [STM]</p>
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BOARD DEVELOPED COURSES (APPEAR ON ROSA)

CREATIVE AND PERFORMING ARTS (CAPA):

Dance

DANCE 100 hour course
Contribution: \$20 course fee

DANCE 200 hour course
Contribution: \$40 course fee

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

Drama

DRAMA 100 hour course
Contribution: \$20 course fee

DRAMA 200 hour course
Contribution: \$40 course fee

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

Music

MUSIC 100 hour course

Contribution: \$30 course fee

MUSIC 200 hour course

Contribution: \$60 course fee

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

Photographic and Digital Media

PHOTOGRAPHIC AND DIGITAL MEDIA 100 hour course

Contribution: \$40 course fee

PHOTOGRAPHIC AND DIGITAL MEDIA 200 hour course

Contribution: \$80 course fee

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 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

Visual Arts

VISUAL ARTS 100 hour course

Contribution: \$80 course fee

VISUAL ARTS 200 hour course

Contribution: \$160 course fee

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

Visual Design

VISUAL DESIGN 100 hour course

Contribution: \$60 course fee

VISUAL DESIGN 200 hour course

Contribution: \$120 course fee

The focus of this course is on making functional pottery and the function of advertising. The study of Visual Design 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

HUMAN SOCIETY AND ITS ENVIRONMENT (HSIE):

Commerce

COMMERCE 1: 100 hour course

Contribution: \$nil course fee

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.

COMMERCE 2: 200 hour course

Contribution: \$nil course fee

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

Cultural Studies

CULTURAL STUDIES 100 hour course

Contribution: \$nil course fee

CULTURAL STUDIES 200 hour course

Contribution: \$nil course fee

The study of Cultural Studies 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

Elective History (Year 9 only)

ELECTIVE HISTORY (Year 9 only) 100 hour course

Contribution: \$nil course fee

Elective History covers Ancient, Medieval and Modern History and allows students to explore the various stories of the past. Studying Elective History provides the opportunity for students to explore the actions, motives and lifestyles of people over time. Students are encouraged to appreciate the differing perspectives of the past.

The course aims to stimulate curiosity and develop empathetic understanding, problem-solving, research and critical thinking skills. Students learn to critically analyse and use sources of evidence in order to construct reasoned explanations and a rational and informed argument based on evidence. There is an opportunity to engage in research involving ICT.

Optional topics include:

Topic 1: History, Heritage and Archaeology

- Archaeological sites
- Family history
- Film as history
- History websites/online environments
- Local history

Topic 2: Ancient, Medieval and Modern Societies

- Africa
- The Americas
- Asia
- Australia
- Europe
- The Middle East
- The Pacific

Topic 3: Thematic Studies

- Children in history
- Crime and punishment
- Gender in the past
- Heroes and villains
- Music through history
- Power and political unrest
- Religious and spiritual beliefs/practices
- Slavery
- Sport and recreation in history
- War and peace
- World myths and legends

Global Studies (Elective Geography)

GLOBAL STUDIES (ELECTIVE GEORGRAPHY) – 100 hour course

Contribution: \$nil course fee

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

LANGUAGES:

Japanese

JAPANESE 100 hour course

Contribution: \$30 course fee (one year)

JAPANESE 200 hour course

Contribution: \$60 course fee (two years)

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
- Have extra opportunities to practice using their Japanese available through video link ups and with Japanese visitors

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

Once every two years a study tour to Japan normally occurs for Year 10/11 students who are studying Japanese.

NOTE: If you study for 100 hours you **will not** be eligible to continue your studies in Year 11 (you will not have completed the level required for the Japanese Continuers course and you would have studied too many hours to be eligible for the Japanese Beginners course).

PERSONAL DEVELOPMENT, HEALTH AND PHYSICAL EDUCATION (PDHPE)

Physical Activity and Sports Studies (PASS)

PHYSICAL ACTIVITY AND SPORTS STUDIES (PASS)

Contribution: 100 hour course: \$10 course fee (one year)

Contribution: 200 hour course: \$20 course fee (two years)

The study of PASS will allow students to:

- Develop an appreciation of movement, as well as the development of physical skills and a willingness to collaboratively and creatively work as part of a number of teams to participate in and promote regular physical activity.

Topics that we study in Year 9 include:

- Participate in Badminton, Oztag, Sofcrosse, Fundamental Movement Skills and Traditional Indigenous Games and Fitness testing.
- Create a game and conduct it with their class.
- Select a Traditional Indigenous game, then plan and conduct it with their class and to Year 4 students of our local feeder primary schools (the Coastal Learning Community (CLC) group of schools – Kingscliff, Bogangar, Pottsville, Cudgen and the Combined Small Schools) during NAIDOC week celebrations.

Topics that we study in Year 10 include:

- Participate in American Football, Indoor Hockey, AFL, European Handball, Badminton and Ultimate Frisbee.
- Plan and conduct an in class athletics event.
- Plan and conduct an Athletics Carnival for one of the local feeder CLC primary schools (Kingscliff, Bogangar, Pottsville, Cudgen and the Combined Small Schools), whilst assisting at all 4 remaining CLC Athletics Carnivals. The best performing students will also be invited to officiate at the Tweed District, Far North Coast and North Coast PSSA Carnivals and the Far North Coast and North Coast High Schools Athletics Carnivals where applicable.
- Plan and conduct an in class sporting competition.
- Plan and conduct a recess sporting competition for either Years 7, 8, 9 or 10.
- Participate in a possible lifestyle and recreation excursion.

Child Studies

CHILD STUDIES: 100 hour course

Contribution: \$10 course fee (one year)

CHILD STUDIES: 200 hour course

Contribution: \$20 course fee (two years)

Equipment needed:

- Workbook and pen

The study of Child Studies 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.

SCIENCE

Agricultural Technology

AGRICULTURAL TECHNOLOGY 100 hour course

Contribution: \$40 course fee (one year)

AGRICULTURAL TECHNOLOGY 200 hour course

Contribution: \$80 course fee (two years)

Equipment needed:

- sturdy enclosed shoes (students can supply their own work shoes to keep at school for the duration of the course)
- hat, water
- exercise book

The study of Agricultural Technology will allow students to:

- develop knowledge and understanding of agriculture as a dynamic and interactive system that uses plants and animals to produce food, fibre and other products
- explore the local and global interactions of agriculture with Australia's economy, culture and society
- gain knowledge of and skills in the effective and responsible production and marketing of agricultural animal and plant products
- develop an understanding of sustainable and ethical practices that support productive and profitable agriculture
- gain skills in problem-solving, including investigating, collecting, analysing, interpreting and communicating information in agricultural contexts
- develop knowledge and skills in implementing collaborative and safe work practices in agricultural contexts
- appreciate the dynamic nature of agricultural enterprises and how they are used to develop solutions to personal, social and global issues
- value the development of skills and gain satisfaction from their use to solve problems and create quality products

Marine and Aquaculture Technology

MARINE AND AQUACULTURE TECHNOLOGY 100 hour course

Contribution: \$50 course fee (one year)

MARINE AND AQUACULTURE TECHNOLOGY 200 hour course

Contribution: \$100 course fee (two years)

Equipment needed:

- red rash shirt or red t-shirt
- own snorkel, mask and fins
- pool fee for pool sessions as required
- exercise book

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

- develop knowledge and skills in water safety and First Aid
- gain knowledge and understanding of marine and aquatic environments
- explore the role of sustainable aquaculture in the preservation of wild seafood stocks and the marine environment
- utilise knowledge, understanding and skills that promote ethical and sustainable practices in the use, management and protection of the marine environment
- develop knowledge, understanding and skills in the responsible selection and safe use of materials, equipment and techniques used in aquaculture and marine and maritime activities
- gain knowledge and understanding of the industries and organisations using, managing and regulating aquaculture and the marine environment
- develop knowledge and skills in researching, experimenting and communicating in marine and aquaculture contexts
- appreciate the finite nature of marine and aquaculture resources and the impact of their use on the environment and society
- value the development of skills and gain satisfaction from their use to develop solutions to personal, social and global issues

TECHNOLOGICAL AND APPLIED STUDIES (TAS)

Food Technology

FOOD TECHNOLOGY 100 hour course

Contribution: \$100 course fee (one year)

FOOD TECHNOLOGY 200 hour course

Contribution: \$200 course fee (two years)

Equipment needed:

- White Apron – can be purchased from the Front Office for \$6.50
- Sturdy enclosed shoes
- Container as required for practical lessons

The study of Food Technology will allow students to:

- Gain a knowledge, understanding and skills related to food hygiene, safety and the provision of quality food
- Examine and explore the history of food in Australia, including bush tucker prepared in the past and present by Aboriginal and/or Torres Strait Islander Peoples, the influence of early European settlers, together with continuing immigration from a variety of cultures
- Gain experience in food service and catering ventures. Learn about their ethical operations across a variety of settings and investigate employment opportunities
- Explore the processes in food product development and develop, produce and evaluate a food product.
- Gain knowledge and understanding of nutrition and food consumption, and the consequences of food choices on health. They explore the nutritional needs of individuals and groups, and explain the effects of poor nutrition
- Develop skills in designing, producing and evaluating solutions for specific food purposes
- Explore a range of special occasions including social, cultural, religious, historical and family

Textiles Technology

TEXTILES TECHNOLOGY 100 hour course

Contribution: \$40 (1 year) plus cost of own materials for projects

TEXTILES TECHNOLOGY 200 hour course

Contribution: \$80 (2 year) plus cost of own materials for projects

The study of Textiles Technology 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.

TECHNOLOGICAL AND APPLIED STUDIES – INDUSTRIAL ARTS (TAS-IA)

CHOOSING YOUR ELECTIVES:

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 two (2) 200hour courses that are continuous across Year 9 and 10, as well as one (1) 100hour course studied across Year 9 only and one (1) Mathematics substage.

Year 10

- You need to continue the two (2) 200 hour courses in Year 10 which you have studied in Year 9. You will choose a NEW 100hour course to study across Year 10 and drop the 100hour course you studied

Choosing Industrial Technology and Computing Studies Electives

Please Note: You are only allowed to select TWO Industrial Technology electives in Year 9 and 10 from the subjects below.

Industrial Technology Strands:

- Engineering
- Human Powered Vehicle Engineering
- Multimedia
- Timber

The following subjects are NOT Industrial Technology subjects and may be chosen as additional subjects:

- iSTEM
- Information & Software Technology

Human Powered Vehicle - Engineering

HUMAN POWERED VEHICLE - ENGINEERING 100 hour course

Contribution: \$80 course fee (one year)

HUMAN POWERED VEHICLE - ENGINEERING 200 hour course

Contribution: \$160 course fee (two years)

Equipment needed:

- Blue Apron – can be purchased from the Front Office for \$6.50
- Sturdy enclosed shoes
- Pencils, Eraser, Sharpener
- Hair Restraint
- Australian Standard Bicycle Helmet

NOTE: This is a specialised subject. Student who choose this elective are prepared to work in a team to prepare and race two Human Powered Vehicles in the QLD HPV Super Series (8 Riders and 2 Pit Crew/Team) whilst learning about engineering. Students will be expected to pay for race entry and excursion costs.

The study of Human Powered Vehicle - Engineering will allow students to:

- Study Industrial Technology – Engineering in a different format
- develop knowledge, understanding and skills in relation to the engineering and associated industries
- undertake Core Module 1 projects in structures and mechanisms in Year 9 (e.g. Bicycle frame design and testing, Model Bridge Challenge, Trebuchet).
- Undertake two specialised modules in Year 10: Alternative Energy, School Developed Engineering Module – HPV Racing
- develop skills and confidence in the use of a range of equipment, tools, processes and technologies to produce quality practical projects
- identify, apply and manage the risks and Work Health and Safety (WHS) issues associated with the use of a range of tools, equipment, materials, processes and technologies
- apply design principles in the modification, development and production of projects
- select, justify and use a range of relevant and associated materials for specific applications
- select, interpret and apply a range of suitable communication techniques in the development, planning, production and presentation of ideas and projects
- describe, analyse and use a range of current, new and emerging technologies such as computer aided design, 3D printing and laser cutting
- describe, analyse and evaluate the impact of technology on society, the environment and cultural issues locally and globally

Industrial Technology - Engineering

INDUSTRIAL TECHNOLOGY - ENGINEERING 100 hour course

Contribution: \$80 course fee (one year)

INDUSTRIAL TECHNOLOGY - ENGINEERING 200 hour course

Contribution:\$160 course fee (two years)

Equipment needed:

- Blue Apron – can be purchased from the Front Office for \$6.50
- Sturdy enclosed shoes
- Pencils, Eraser, Sharpener
- Hair Restraint

The study of Industrial Technology - Engineering will allow students to:

- study Core Module 1 - Structures and Mechanisms in Year 9 (eg Projects - Earthquake Tower Challenge, Model Bridge Challenge, Trebuchet and Co2 Dragster).
- study two specialised modules in Year 10: Alternative Energy, Control Systems, School Developed Engineering Module and Transport
- develop knowledge, understanding and skills in relation to the engineering and associated industries
- develop skills and confidence in the use of a range of equipment, tools, processes and technologies to produce quality practical projects
- identify, apply and manage the risks and WHS issues associated with the use of a range of tools, equipment, materials, processes and technologies
- apply design principles in the modification, development and production of projects
- select, justify and use a range of relevant and associated materials for specific applications
- select, interpret and apply a range of suitable communication techniques in the development, planning, production and presentation of ideas and projects
- describe, analyse and use a range of current, new and emerging technologies such as computer aided design, 3D printing and laser cutting
- describe, analyse and evaluate the impact of technology on society, the environment and cultural issues locally and globally

Industrial Technology - Metal

INDUSTRIAL TECHNOLOGY - METAL 100 hour course

Contribution: \$80 course fee (one year)

INDUSTRIAL TECHNOLOGY - METAL 200 hour course

Contribution: \$160 course fee (two years)

Equipment needed:

- Blue Apron – can be purchased from the Front Office for \$6.50
- Sturdy enclosed shoes
- Pencils, Eraser, Sharpener
- Hair Restraint

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

- build skills in Core Module, Metal 1 in Year 9. Undertake two specialised modules in Year 10 in metal fabrication or machining.
- develop knowledge, understanding and skills in relation to the metal industries
- develop skills and confidence in the use of a range of equipment, tools, processes and technologies to produce quality practical projects
- identify, apply and manage the risks and WHS issues associated with the use of a range of tools, equipment, materials, processes and technologies
- apply design principles in the modification, development and production of projects
- select, justify and use a range of relevant and associated materials for specific applications
- select, interpret and apply a range of suitable communication techniques in the development, planning, production and presentation of ideas and projects
- describe, analyse and use a range of current, new and emerging technologies such as computer aided design and laser cutting
- describe, analyse and evaluates the impact of technology on society, the environment and cultural issues locally and globally

Industrial Technology - Multimedia

INDUSTRIAL TECHNOLOGY - MULTIMEDIA 100 hour course

Contribution: \$40 course fee (one year)

INDUSTRIAL TECHNOLOGY - MULTIMEDIA 200 hour course

Contribution: \$80 course fee (two years)

Equipment needed:

- Students will be required to keep an electronic design folio.

The study of Industrial Technology - Multimedia will allow students to:

- build skills in web design and video production in Core Module 1, Year 9. Design apps, interactive games and simulations in the specialised module, Multimedia 2 in Year 10.
- develop knowledge, understanding and skills in relation to the multimedia industries.
- develop skills and confidence in the use of a range of hardware and software. Use digital cameras video and animation hardware.
- identify, apply and manage the risks and WHS issues associated with hardware, materials, processes and technologies.
- apply design principles in the modification, development and production of projects.
- select, justify and use a range of relevant and associated software for specific applications.
- select, interpret and apply a range of suitable communication techniques in the development, planning, production and presentation of ideas and projects
- describe, analyse and use a range of current, new and emerging technologies such as app design software, 3d printing and virtual reality.
- describe, analyse and evaluate the impact of technology on society, the environment and cultural issues locally and globally

Industrial Technology - Timber

INDUSTRIAL TECHNOLOGY - TIMBER 100 hour course

Contribution: \$80 course fee (one year)

INDUSTRIAL TECHNOLOGY - TIMBER 200 hour course

Contribution: \$160 course fee (two years)

Equipment needed:

- Blue Apron – can be purchased from the Front Office for \$6.50
- Sturdy enclosed shoes
- Pencils, Eraser, Sharpener
- Hair Restraint

The study of Industrial Technology - Timber will allow students to:

- develop knowledge, understanding and skills in relation to the timber and associated industries
- engage in timber projects to promote the sequential development of skills and reflect an increasing degree of student autonomy as they progress through the course (Core Module 1 – Year 9, Specialised Module – Timber 2 – Year 10)
- develop skills and confidence in the use of a range of equipment, tools, processes and technologies to produce quality practical projects
- identify, apply and manage the risks and WHS issues associated with the use of a range of tools, equipment, materials, processes and technologies
- apply design principles in the modification, development and production of projects
- select, justify and use a range of relevant and associated materials for specific applications
- select, interpret and apply a range of suitable communication techniques in the development, planning, production and presentation of ideas and projects
- describe, analyse and use a range of current, new and emerging technologies such as computer aided design and laser cutting
- describe, analyse and evaluates the impact of technology on society, the environment and cultural issues locally and globally

Information and Software Technology

INFORMATION AND SOFTWARE TECHNOLOGY 100 hour course

Contribution: \$40 course fee (one year)

INFORMATION AND SOFTWARE TECHNOLOGY 200 hour course

Contribution: \$80 course fee (two years)

Equipment needed:

- Students will be required to keep an electronic portfolio of practical and classwork completed

The study of Information and Software Technology will allow students to:

- participate in a range of practical activities to build knowledge and understanding of a range of computer software and hardware.
- study a range of option modules including authoring and multimedia; software development and programming; artificial intelligence; robotics and automated systems.
- design, produce, test, document, implement and evaluate information and software technology-based solutions.
- examine past, current and emerging technologies, data, hardware, software and people involved in the field of information and software technology.
- investigate legal, ethical, social and industrial issues.

****END OF BOARD DEVELOPED ELECTIVES****

NSW DEPARTMENT OF EDUCATION APPROVED ELECTIVES

DO NOT appear on ROSA

iSTEM

iSTEM 100 hour course

Contribution: \$80 course fee (one year)

iSTEM 200 hour course

Contribution: \$160 course fee (two years)

Equipment needed:

- Blue Apron – can be purchased from the Front Office for \$6.50
- Sturdy enclosed shoes
- Pencils, Eraser, Sharpener
- Hair Restraint

Note: This is a Department of Education approved elective as of 2022. It does not appear on the RoSA.

The study of iSTEM will allow students to:

- study a new subject that was developed in collaboration with industry, business, government and universities.
- participate in activities involving the latest technologies including additive manufacturing (3D printing), laser cutting, augmented and virtual reality, drones, smart robotics and automation systems, Artificial Intelligence (AI) and a range of digital systems.
- study core topics in STEM fundamentals and project-based learning. Study elective modules in computer aided design (CAD), critical thinking and project-based learning.
- Study specialised modules in a range of fields including; advanced manufacturing; aeronautical engineering; mechatronics and robotics; and design for space.
- apply engineering design processes to address real-world STEM-based problems
- select and safely uses a range of technologies in the development, evaluation, and presentation of solutions to STEM-based problems
- work independently and collaboratively to produce practical solutions to real-world scenarios

Journalism

JOURNALISM 100 hour course

Overview:

Kingscliff High School Annual Magazine

In this semester Stage 5 elective students will learn the skills to collaboratively create photographic and written texts for a school newspaper publication. Students will learn the roles of media production - photographer, editor, sub-editor, journalist, production (layout and design) and will acquire the skills of how the world can be represented through the visual and written word for an identified audience.

Students will learn how to work collaboratively to publish a newspaper: including how to write newspaper articles, conduct interviews, write and edit copy, write headlines, captions, bylines, use SLR cameras, gain insight through guest journalists (contacts to be acquired for Tweed News, The Koori Mail), and how to layout a newspaper on Adobe software/Quark for authentic publication of a school newspaper.

The skills students acquire in this elective link to opportunities to enter competitions such as

<https://fronlpage.online/about/>

Assessment:

Students will collate a portfolio of work and submit a newspaper article and photograph to a newspaper for publication.

Cross curricular:

Photographic and Digital Media, English, ICT

Long-term:

HPGE Kingscliff High School newspaper (to replace the Kingscliff High School newsletter); students acquire skills for Journalism cadetship/internship/work experience through Kingscliff High School relationship with local newspapers.

****END OF NSW BOARD DEPARTMENT OF EDUCATION
APPROVED ELECTIVES ****

LAST PAGE

Speak to the following staff at your school for more information:

- Head Teachers in each Faculty
 - Year Adviser
 - Careers Adviser
- Stage 5 Co-ordinator