



ST. PHILIP'S COLLEGE

YEAR 10 – 2017

SUBJECT HANDBOOK

INFORMATION FOR PARENTS AND STUDENTS

Students attending St Philip's College can follow one of two pathways in Years 10, 11 and 12. These are the Academic Pathway and the Employment Pathway.

The Academic Pathway leads to a Northern Territory Certificate of Education and Training (NTCET) and, for most students, an Australian Tertiary Admission Rank (ATAR). Students following the Employment Pathway will only receive a Northern Territory Certificate of Education and Training (NTCET). The aim of the Employment Pathway is to ensure that those students following this pathway get a job or an apprenticeship by the end of Year 12.

Employment Pathway

Students following the Employment Pathway will do predetermined subjects over the three years. They will also have regular work placements as part of their normal course of study or some students may start work in a school based apprenticeship. In Year 10 their subjects will include General English, General Mathematics, General Humanities, General Science and Integrated Learning. They will also do Personal Learning Plan, Physical Education, Religious Education and Health.

Academic Pathway

Students following the Academic Pathway will do up to three elective subjects next year. Most of these subjects will be studied for one semester. The elective subjects will supplement the core subjects of English, Mathematics, Science, History, Geography, Personal Learning Plan, Physical Education, Religious Education and Health. Students also have a choice as to the level of Mathematics and English they wish to study in Year 10.

Students who select the Employment Pathway will not have a choice of electives but will follow a pattern of predetermined subjects outlined on Page 3. All students considering the Employment Pathway will need to organise an interview with Mrs Tilbrook and their parents or guardians to discuss their possible career path before being accepted into the program.

For students following the Academic Pathway, all the available elective subjects are described in the following pages. All subjects are offered for selection by students, but only those subjects chosen by enough students will appear in the final timetable. This means that if not enough students choose a particular subject, it will be withdrawn as an available elective.

Students will be placed in their elective subjects according to their order of preference on their subject selection form. For this reason, it is important that you list your preferred subjects in order from 1 to 10.

At the end of Year 12 most students who qualify for their Northern Territory Certificate of Education and Training (NTCET) will also receive an Australian Tertiary Admission Rank (ATAR). This will be used by the universities to determine which students they accept into the courses they offer. Various universities also offer

bonus points if students do particular subjects at Year 12 level. At this stage it is important to recognise that some universities currently offer bonus points for students who do a language.

The only subjects that can be done for the full year are Music, French and Japanese. French and Japanese are full year courses. Music can be studied for one semester or for two semesters. It is envisaged that students will need to have studied these subjects in Year 9, or be able to catch up, to be successful at them in Year 10. If you wish to do any of these subjects in Year 11, it is recommended that you do the subject in Year 10.

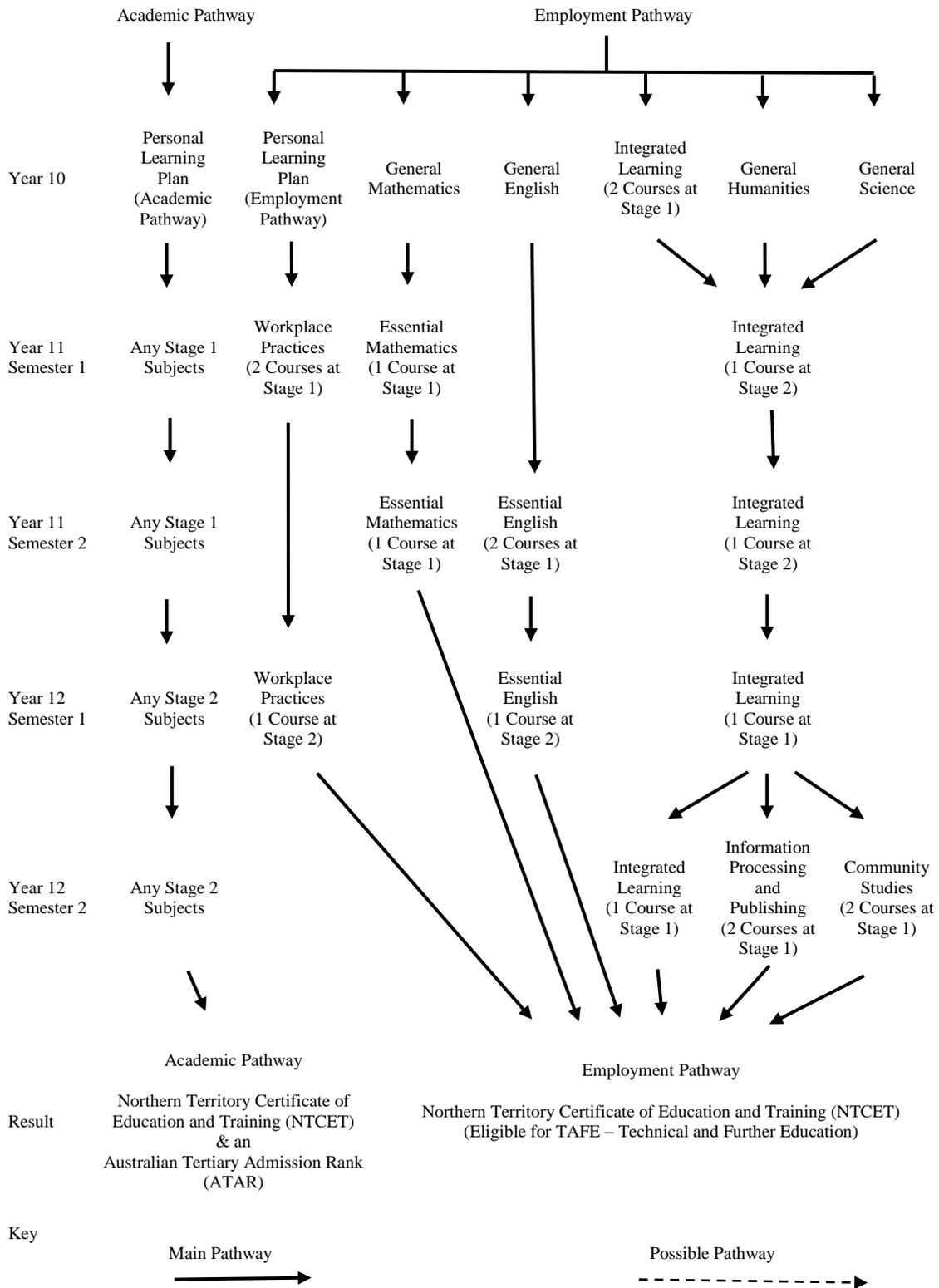
The only other restrictions that apply relate to Physical Fitness and Recreation, and Sports Science. As there is a significant overlap in content, students cannot do both of these subjects.

The Mathematics and English level are outlined at the end of the booklet. It is important that all students consider their longer term goals when deciding the level to study in these subjects.

Should you have any questions with regard to any of the subjects, please feel free to contact the appropriate Head of Department or myself.

Leslie Tilbrook
Acting Director of Teaching, Learning and Curriculum
(08) 8950 4504

Subject Pathways – Academic and Employment Pathways



YEAR 10 AVAILABLE ELECTIVE SUBJECTS

Applied Technology - Design and Wood Course

Applied Technology - Design and Metal Course

Computing Studies

Dance

Drama

Food Technology - International Cuisine

French (Full Year Subject)

Horticulture and Agriculture

Japanese (Full Year Course)

Music

Music and Media

Outdoor Education

Photography – Digital

Physical Fitness and Recreation

Sports Science

Textile Design – Fabrics

Visual Arts

YEAR 10 INFORMATION ON COMPLUSORY SUBJECTS

Students in Year 10 will undertake the compulsory subjects of English, Mathematics, Science, History, Geography, Personal Learning Plan, Physical Education, Religious Education and Health.

English, Mathematics, Science, Physical Education and Religious Education will be done by all students all year. History, Geography and Health are semester length courses and will be done in either the first or second semester only.

All students in Year 10 will also do the semester length course called a Personal Learning Plan. This is the first Year 11 subject that students will undertake. It is a compulsory subject in which all Year 10 students must obtain a Grade C or better in order to gain their Northern Territory Certificate of Education and Training (NTCET) at the end of Year 12. It includes one week of work experience and is outlined in details at the end of this booklet. Students who do not get a Grade C or better will have to repeat the subject.

Applied Technology - Design and Wood Course

The Design and Wood Applied Technology Course extends its “Design Make Appraise” process via a workshop situation. Students continue to practice the construction process using wood as the main material. The students will be exposed to a larger design component and with a correspondingly greater emphasis on their design / drawing skills. Safety and the correct use of the various equipment are important aspects to this subject. Related theory work is also reinforced via homework assignments.

The course is broken into two main components. These are Theory, Graphics and Design where the project design is undertaken, and Tools and Materials which emphasises the construction process. The students will work with local and exotic wood products. There is ongoing theory work with tests and some other set homework. The use of a selection of hand and electric machinery is covered, including bandsawing and routing. A number of lessons specifically require use of the workshop while others require the Design Room.

The graphics and design processes will also involve isometric projection and design development exposure. The Tools and Materials component will include safety, marking out, cutting, finishes, sawing, adhesives, drilling, routing and electric sanding.

Assessment

Participation	15%
Theory Task	35%
Graphics Task	15%
Practical Task	35%

Further information can be obtained from Mr Geoff Leedham on 8950 4549.

Applied Technology - Design and Metal Course

The Design and Metal Applied Technology Course extends its “Design Make Appraise” process via a workshop situation. Students continue to practice the construction process using metal as the main material and also do some design work. The students will be exposed to a larger design component and with a correspondingly greater emphasis on their design / drawing skills. Specific time is set aside to cover theory related topics. Safety and the correct use of the various equipment are important aspects to this subject. Related theory work is also reinforced via homework assignments.

The course is broken into two main components. These are Theory, Graphics and Design where the project is designed, and Tools and Materials which emphasises the construction process. The students will work mainly with metal but there is ongoing theory work with tests and some set homework. The use of a selection of hand and other machinery is covered including resistance welding. A number of lessons specifically require use of the workshop while others require the Design Room.

The graphics and design processes will involve isometric projection, orthographic projection and design development. The Tools and Materials will include safety, marking out, cutting, bending and folding, soldering, riveting and joining.

Assessment

Participation	15%
Theory Task	35%
Graphics Task	15%
Practical	35%

Further information can be obtained from Mr Geoff Leedham on 8950 4549.

Computing Studies

Computing is a compulsory subject during Years 7 and 8 here at St Philip's, but is an elective from Year 9 onwards. This subject builds on the foundation formed in Years 7, 8 and 9.

This subject enhances some of the skills previously learned in computing; for example in the creation and use of spreadsheets; and also introduces areas that students will not have had any formal training in. In particular, we visit digital video filming and editing and relational databases. The students are expected to film and edit a one minute video in the style of a commercial and to produce a relational database.

A continuation of the typing skills learnt in early years is included in the course, but does not form part of the assessment for the subject.

This subject is recommended but not compulsory for those wishing to take computing subjects later in their school career. It is not compulsory, but is recommended, that students have done the computing elective in Year 9 prior to this course.

Assessment

Classwork	25%
Digital Filming and Editing	25%
Databases	25%
Robotics	25%

Further information can be obtained from Dr Matt Johnson on 8950 4586.

Dance

This is a practical based subject that encourages personal development as a dancer and choreographer. A variety of dance styles and choreographers will be researched and explored. Individual and group dance pieces will be choreographed and performed.

The aim of this course is to develop creative potential, gain a greater understanding of the students' own bodies as storytelling instruments and create confident and competent performers and choreographers.

Assessment

Participation (In-class practice and choreography tasks)	50%
Exhibition	30%
Journal / Book Work	10%
Test	10%

Further information can be obtained from Mr Steve Kidd on 8950 4518.

Drama

In this subject we continue to build on our knowledge of the craft. We learn about the actor/audience relationship and different performance styles and genres. We develop life skills by working together as a group, improvising, analysing and creating our own production work. Technical production practical tasks are geared specifically towards the Group Production Task. Students will get hands on experience in their choice of acting, crewing, set, costume and prop design and construction, lighting and sound design, rigging and operation, scriptwriting and production/stage management or publicity. Presentation skills, role play and improvisation, play reading and analysis are also part of the course.

Assessment

Participation (Improvisation and Production Process)	50%
Exhibition	30%
Journal / Book Work	10%
Test	10%

Further information can be obtained from Mr Steve Kidd on 8950 4518.

Food Technology - International Cuisine

This course focuses on the development of students' appreciation of food customs, traditions and cultures of people from other countries. Students will be provided with a range of experiences in preparation and presentation of foods from other cultures. There are elements of this course that have much in common with the previous two years; health and safety in the kitchen, identification of basic utensils, equipment and appliances, reading and interpreting recipes, basic cooking skills and time management. However, students will be able to experience the tasting, handling and preparation of food from other countries and understand the origins of national dishes and the relationship to their geographic position, type of economy and climate. Students will have lessons which will alternate between theory and practical lessons.

Assessment

Practical Assessment One	25%
Practical Assessment Two	25%
Design Brief	40%
Participation	10%

Further information can be obtained from Mr Stuart Todd on 8950 6231.

French (Full Year Course)

This subject continues from Year 9 French. Students who choose to study French in Year 10 will be encouraged to consider studying French in Year 11. Year 10 French is, therefore, an academic subject which will require commitment to learning and, in particular, the recognition of the necessity for regular revision at home. Topics include: the history and culture of various places in France, relationships, the environment, occupations, talking about the past and the future plus relevant vocabulary and grammar.

Assessment

Speaking and Listening Tasks	40%
Reading and Writing Tasks (includes a Culture Research Task in Semester 1 and a Novel Study in Semester 2)	40%
Topic Test	10%
Class Participation	10%

Further information can be obtained from Mrs Christine Wilson on 8950 4527.

Horticulture and Agriculture

Horticulture in Year 10 is an extension of the theory and practice that have been covered at a Year 9 level, delving further into the plant world, from a scientific perspective. Students will look at the structure and composition of soils, they will also explore how science is able to assist horticultural and agricultural practices, such as in the use of both chemical and organic material to improve the soil composition and function. Students will also look at the varying aspects of what is needed to operate a horticultural or agricultural venture. Through Sustainable Gardening Practices, students will look at, both in theory and in practice, the role of bees in horticulture/agriculture and will learn practical skills associated with apiary (bee keeping).

Assessment

Horticultural/Agricultural Science	30%
Sustainable Gardening Practices	30%
Summative test	20%
Participation and Book Work	20%

Further information can be obtained from Mr James Tudor on 8950 4594.

Japanese (Full Year Course)

This subject continues on from Year 9 Japanese. Students will consolidate their knowledge and understanding of grammar and vocabulary and learn to communicate more fluently in Japanese. Topics include: talking about your family and your past, asking for and giving directions, your neighbourhood, everyday activities such as shopping and understanding a menu, Japanese culture as well as Kanji characters.

This is an academic subject and students choosing it must have a very strong commitment to learning Japanese.

Assessment

Semester 1

Reading and Writing Tasks	45%
Speaking and Listening Tasks	45%
Homework and Bookwork	10%

Semester 2

Reading and Writing Tasks	40%
Speaking and Listening Tasks	40%
Culture Assignment	10%
Homework and Bookwork	10%

Further information can be obtained from Mr Yukihiisa Matsueda on 8950 4589.

Music

This is a course with an emphasis on the development of musicianship. This includes; the development of performance skills; applied theory and harmony skills; computer music literacy and the development of knowledge of how music is used in society.

All Year 10 Music students must actively continue their instrumental or vocal lessons for the year and maintain regular practice on their instrument. They will be expected to perform regularly on their chosen instrument in class.

Prerequisites;

- proficiency as a vocalist or instrumentalist
- minimum of Grade 1 AMEB theory and music reading standard

Assessment

Participation	40%
Practical Task	30%
Special Assignment and Book Work	10%
Music Theory Test	20%

Further information can be obtained from Mr Steve Kidd on 8950 4518.

Music and Media

This course intends to build on knowledge gained through the Year 9 Music and Media Course. Students will continue to explore electronic music production skills, including the art of remixing, through the use of Protools, Acid Pro, Ableton and other programs.

Students will have the opportunity to learn about live sound through the use of the public address system, mixing desk and studio recording equipment.

Assessment

Preparation, Organisation and Bookwork	15%
Use and Understanding of Technology	15%
Practical Tasks – Electronic Music Production, Remix, Live Sound Production and Recording	40%
Participation	30%

Further information can be obtained from Mr Steve Kidd on 8950 4518.

Outdoor Education

Year 10 Outdoor Education is a varied and interesting subject with a practical and theoretical focus. It is well suited to students who are interested in learning and developing outdoor skills such as navigation, trip planning, first aid, as well as opportunities to develop some problem solving and lateral thinking skills. Indoor rock climbing on the College's rock wall is a significant part of the course with a focus on climbing technique and practice and safety belay skills.

Assessment is based around participation and engagement in practical activities and sessions in class and the application of their learning in formal written projects.

Assessment

Book Work and Participation	20%
Climbing (Belay and Safety Systems) and Individual Climbing Technique	40%
Film Review	20%
Project	20%

Further information can be obtained from Mr David Atkins on 8950 4593.

Photography – Digital

This is designed to be a continuation of the Year 9 Photography Course but is also open to beginners. Students are provided with digital cameras and advanced photo editing software. They are required to follow a creative process and produce a range of major pieces through experimentation and the development of their skills. Through a series of themes, students are given the opportunity to work with Adobe Photoshop and are required to produce final pieces and folio support documents for assessment.

Assessment

Macro Folio	30%
Portrait Folio	30%
Panorama Folio	30%
Bookmark	10%

Further information can be obtained from Mr James Tudor on 8950 4594.

Physical Fitness and Recreation

Note: If you do this subject you will not be allowed to do Sports Science.

The aim of this course is to develop knowledge of the components of fitness and to give the students the necessary knowledge of the importance of physical fitness to their health and well being. It also aims to give students an understanding of how the body functions and the effect of physical training.

The type of fitness training the students will undertake will include: aerobic, anaerobic, circuit, weight, interval and flexibility training. Students will be tested on their fitness level at the start, during the semester and at the end. They will be required to keep an accurate log sheet of their fitness programs.

The course will also provide the students with the opportunity to experience a wide range of recreational activities, including creating and developing their own physical activity. The students will be able to participate in a range of activities which are not normally covered in general physical education.

Assessment

Participation	35%
Training Programs (Resistance & Cardiovascular)	25%
Fitness Profile	20%
Create a Fitness Session and Game Design	20%

Further information can be obtained from Mr Davey Tudor on 8950 4540.

Sports Science

Note: If you do this subject you will not be allowed to do Physical Fitness and Recreation.

This course is designed to consolidate students' understanding of human anatomy and extend their knowledge and understanding of the physiological processes that affect humans' ability to perform physical activity. It also provides students with opportunities to conduct and analyse a range of fitness tests.

Students will study the components and functions of blood, structure and function of the heart, blood vessels, circulatory and respiratory systems, and the biomechanics of human movement. They will explore the inter-relationships between the body systems. Measurement and evaluation of physical fitness, the components of fitness as well as the validity and reliability of fitness tests will be studied. The theoretical components of the course will be explored and applied within a selection of sports and activities.

Assessment

Practical Component	50%
Participation	10%
Training Methods Assignment	25%
Energy Systems Test	15%

Further information can be obtained from Mr Davey Tudor on 8950 4540.

Textile Design – Fabrics

Designing, creating and critiquing. “Everything that is not found in nature is designed by someone.....”

Students will complete a series of sewing exercises that demonstrate a clear grasp of craftsmanship and attention to detail. Several final garments including a self generated project are sewn to indicate clarity in understanding of instructions and concepts. Students are to be able to work within a group and show active support of other members.

Assessment

Folio of Exercises	30%
Sewn Article	30%
Book Presentation	20%
Research Assignment	20%

Further information can be obtained from Ms Donna Nicholls on 8950 6203.

Visual Arts

This course is designed for students who are interested in developing their creative and aesthetic perceptions through a range of media. The course involves aspects of making, critical analysis and historical research.

The main emphasis is the practical exploratory process in response to the work of several artists. Students will explore a range of two dimensional media, emulating a range of methods and techniques. Visual literacy, artistic expression and appreciation is developed through explorations in drawing, painting and printmaking.

Students will produce a folio, a practical art piece in response to their folio and a visual study.

Assessment

Folio and Bookmark	35%
Practical Task	25%
Artist Statement	10%
Visual Study	30%

Further information can be obtained from Ms Siobhan Niland on 8950 4535.

Personal Learning Plan

What is it?

The Personal Learning Plan is a compulsory Northern Territory Certificate of Education and Training (NTCET) subject, normally undertaken in Year 10. In order to gain their Year 12 Leaving Certificate (NTCET) students must achieve a C or better in their Personal Learning Plan (PLP). It is *mandatory* that all Year 10 students complete one semester of PLP.

In PLP, students will consider their personal capabilities, aspirations and interests and then research reliable career information to help them make appropriate subject choices and map out their future. Students will work towards goals they need to achieve as they progress through school towards work, training or further study.

The Personal Learning Plan will help students:

- identify and research career paths and options (including further education, training and work)
- choose appropriate NTCET subjects and courses based on plans for future work and study
- consider and access subjects and courses available in and beyond school
- gain an understanding of their capabilities in the areas of literacy, numeracy, ICT, personal and social creative and critical thinking, and intercultural and ethical understanding
- gain skills for future employment by participating in a week of work experience
- identify goals and plans for improvement
- review and adjust plans to achieve goals.

The Personal Learning Plan will contribute 10 credits towards the NTCET.

How will the Personal Learning Plan be taught?

The Personal Learning Plan is designed to be tailored to the needs of students. Staff will work with students after they have formally completed the subject to encourage students to review and update their goals and plans.

Students going on international exchange will complete the PLP in the semester that they are not on exchange.

Assessment

Capabilities Portfolio	25%
Work Experience	25%
Interview	25%
Review	25%

Further information can be obtained from Mrs Leslie Tilbrook on 8950 4504.
(Email: leslie.tilbrook@stphilips.nt.edu.au)

VET Courses

Students in Year 10 can undertake a number of VET Courses. These VET courses are taught at Centralian College and give students credits towards their Northern Territory Certificate of Education and Training (NTCET). This is awarded at the end of Year 12.

HOSPITALITY COURSES

Students can complete Hospitality I in Semester 1 or Semester 2. Hospitality II can be done in Semester 2 by students who have successfully completed Hospitality I in Semester 1. Both courses take place on either a Monday or a Tuesday between 3.30pm and 5.30pm for the entire semester. Students will also need to complete some shifts at the Desert Lantern Restaurant.

To express interest in the Hospitality or Retail courses students are asked to email Ms Anderson at kathryn.anderson@portal.stphilips.nt.edu.au. During the last week of Term 3 2016 any interested students will receive an "Expression of Interest" form which must be completed (with a parent signature) and returned to Ms Anderson. Courses begin in Week 2 of each term so student organisation is essential.

OTHER COURSES

Parents or students in Year 9 who are interested in any of the courses listed below which were offered in 2016 are asked to make an appointment with Ms Anderson by contacting her on 8950 6219 or kathryn.anderson@stphilips.nt.edu.au

Certificate II in Information Technology

Certificate II in Food Processing (Meat Retailing) (Part 1)

Certificate II in Hairdressing

Certificate II in Media

Certificate II in Music

Certificate II in Sport & Recreation

Certificate I in Automotive

Certificate II in Construction (Pathways) Part 1

Certificate II in Engineering (Pathways) Part 1

Certificate II in Nail Technology Part 1

Certificate I in Hospitality (cooking)

Certificate I in Retail

These courses are run in blocks throughout the year. Final confirmation of all CDU VET in Schools Courses is released in 2017. Students participating in an International Exchange are unable to enrol in a VET block course.

Mathematics and English Levels

From the start of Year 10, students are able to choose their level of English and Mathematics. These choices are made at this time to allow the students to gain a better understanding of the general expectations of the different courses in Year 11.

Students attending St Philip's College can follow one of two pathways in Years 10, 11 and 12. These are the Academic Pathway and the Employment Pathway.

Academic Pathway

The Academic Pathway leads to a Northern Territory Certificate of Education and Training (NTCET) and an Australian Tertiary Admission Rank (ATAR). Students following the Academic Pathway will select their own subjects. They will have a choice of English Literary Studies or English. They will also have a choice of Mathematical Methods, General Mathematics or Essential Mathematics.

Employment Pathway

Students following the Employment Pathway will only receive a Northern Territory Certificate of Education and Training (NTCET). The Employment Pathway is for those students who want to get an apprenticeship at the end of Year 12 or start a school based apprenticeship in Year 10, Year 11 or Year 12. They will have regular work placements as part of their normal course of study but will do predetermined subjects over the three years. These students will do Essential English in both Year 11 and Year 12 and Essential Mathematics in Year 11 but not Year 12.

ENGLISH

Students in Year 10 can choose any English course to study. All students should consider their possible career paths and decide which English subject will best prepare them for Year 11 and Year 12.

ENGLISH AT YEAR 11 AND YEAR 12

At Year 11 there will be three English courses available. These are: English Literary Studies, English and Essential English. All of these courses will prepare students for the corresponding courses in Year 12.

ENGLISH LITERARY STUDIES

English Literary Studies focuses on the development of English skills, strategies, knowledge and understanding, for a variety of purposes. Students read a range of extended texts and a number of shorter texts. They read texts analytically from a range of contexts, including those from the past, contemporary texts, and those from everyday experiences. Students focus on the skills and strategies of critical thinking needed to interpret texts. Through shared and individual study of texts, they have opportunities to exchange and develop ideas, find evidence to support personal views, and learn to construct logical and convincing arguments.

ENGLISH

English focuses on the development of English skills, and in particular, the communication process. Students learn to recognise the conventions of different text types and contexts. They consider the role of language in communications between individuals, groups and organisations. By reading, writing, viewing, listening and speaking, and through the use of information and communication technologies, students develop literacy skills in a broad range of contexts.

ESSENTIAL ENGLISH

Essential English focuses on the development of English skills, and in particular the communication process through reading and composing texts. Students reflect on their personal values and those of other people by responding to different texts. Texts will include novels, newspapers, film, etc.

YEAR 10 – ENGLISH SUBJECTS

Students in Year 10 must choose to do one of the three courses. These are Extension English, English and General English

EXTENSION ENGLISH

Extension English focuses on the development of knowledge, understanding, skills and strategies for many purposes. Students will read a range of extended texts, and some shorter texts. The texts will be read analytically from contexts that range from the past to the contemporary, and those that engage with experiences from everyday living. Through a shared study of texts, students will have opportunities to exchange and develop ideas, and learn to construct logical and convincing arguments.

The assessment tasks for this course will relate to the following assessment types: Responding to Texts (written and/or oral/multimodal); Creating Texts (written and/or oral/multimodal); Critical Reading. Students have to complete four summative tasks, and an end of semester examination (each weighted at 20%), each semester.

ENGLISH

The focus is on the development of English skills, particularly the communication process. Students will read some extended texts, and shorter texts. While they will be encouraged to respond to the texts analytically, they will also be considering the role of language in everyday communication. Through the reading, writing, viewing, use of information and technology, listening and speaking modes students will develop literacy skills in a broad range of contexts.

The assessment tasks for this course will relate to the following assessment types: Responding to Texts (written); Creating Texts (written and/or oral/multimodal); Critical Reading / Language Study. Students have to complete four summative tasks, and an end of semester examination (each weighted at 20%), each semester.

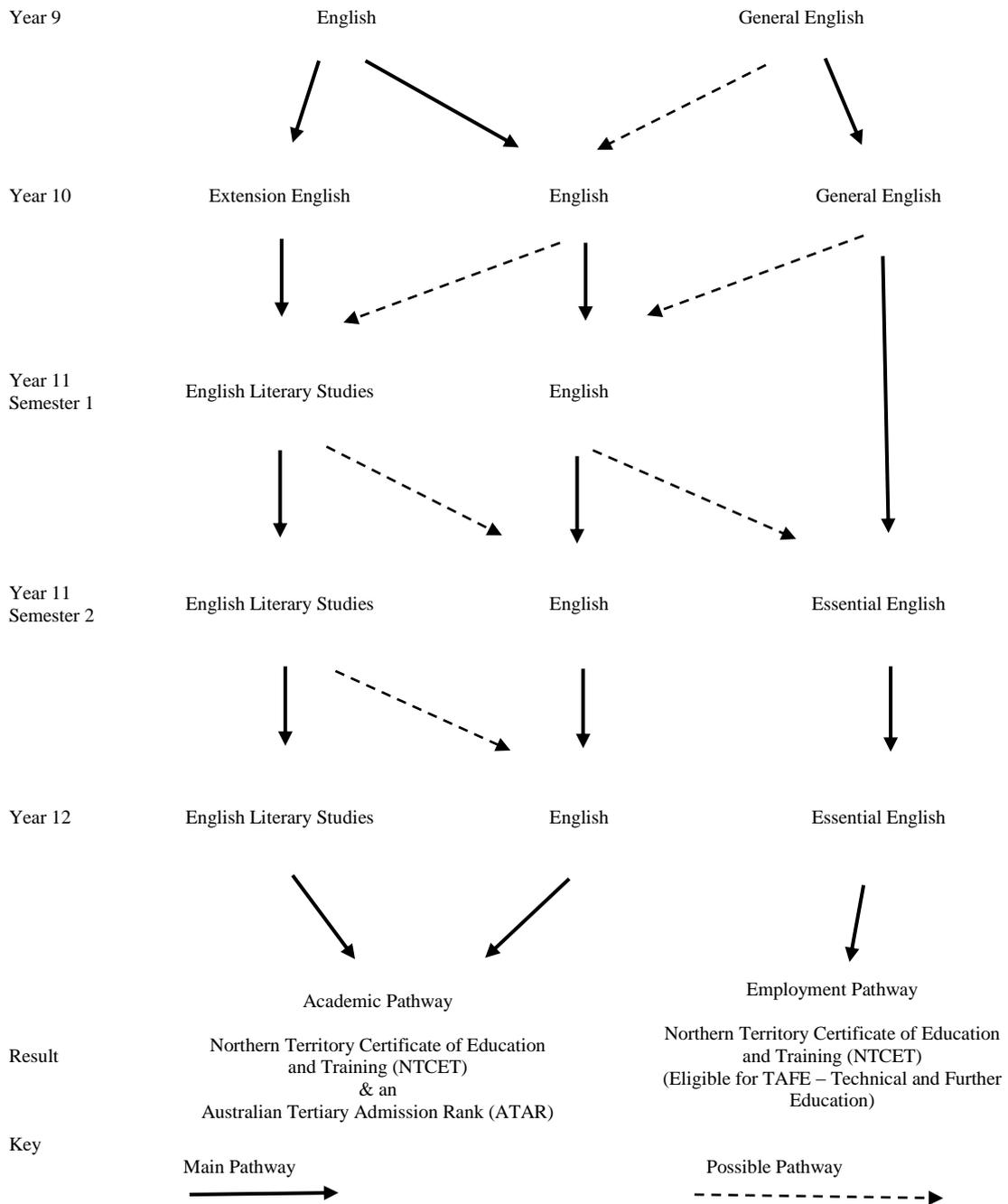
GENERAL ENGLISH

This course focuses on the development of English skills; more importantly, on the development of the communication process through reading and composing texts. Students will reflect on their personal values and beliefs and those of others through their responses to texts.

The assessment tasks for this course will relate to the following assessment types: Responding to Texts (written); Creating Texts (written and/or oral/multimodal); Language Study. Students have to complete four summative tasks, and an end of semester examination (each weighted at 20%), each semester.

For further information, please contact Mrs Vida on 8950 4579.

Subject Pathways – English (Compulsory to the end of Year 11)



MATHEMATICS

Students in Year 10 can choose any Mathematics course to study. All students should consider their possible career paths and decide which Mathematics subject will best prepare them for Year 11 and Year 12.

MATHEMATICS AT YEAR 11 AND YEAR 12

At Year 11 there will be four Mathematics courses available. These are: Essential Mathematics, General Mathematics, Mathematical Methods and Specialist Mathematics. All of these courses are considered as preparation for the corresponding courses in Year 12.

SPECIALIST MATHEMATICS

Specialist Mathematics is the highest course that students can undertake. Students who do this course must also do Mathematical Methods. The topics covered are Mathematical Induction, Complex Numbers, Functions and Sketch Graphs, Vectors in Three Dimensions, Integration Techniques and Applications, Rates of Change and Differential Calculus. This course is for serious Mathematics students and there are usually only four or five students doing this subject each year in Year 12.

MATHEMATICAL METHODS

This subject covers the topics of Further Differentiation and Applications, Discrete Random Variables, Integral Calculus, Logarithmic Functions, Continuous Random Variables and the Normal Distribution, and Sampling and Confidence Intervals. It is designed for students who have a real interest in Mathematics.

GENERAL MATHEMATICS

General Mathematics is designed to prepare students for entry into tertiary courses requiring a non-specialised background in mathematics. It covers the topics of Modelling with Linear Relationships, Modelling with Matrices, Statistical Models, Financial Models and Discrete Models.

ESSENTIAL MATHEMATICS

Essential Mathematics is not designed for students who need to study some level of Mathematics after they leave school. It is more of a practical “hands on” subject. It covers the topics of Scales, Plans and Models, Measurement, Business Applications, Investments and Loans, and Statistics.

YEAR 10 – MATHEMATICS SUBJECTS

Students in Year 10 must do one of three subjects. These are Extension Mathematics, Mathematics or General Mathematics.

EXTENSION MATHEMATICS

Students who choose Extension Mathematics will study topics such as Surds and Indices, Coordinate Geometry, Non Right Angle Trigonometry, Graphs, Curve Sketching, Polynomials, Functions and Logarithms, Advanced Algebra, Measurement, Probability and Statistics. This will be an abstract course designed for those students intending to undertake Specialist Mathematics and/or Mathematical Methods in the senior school.

MATHEMATICS

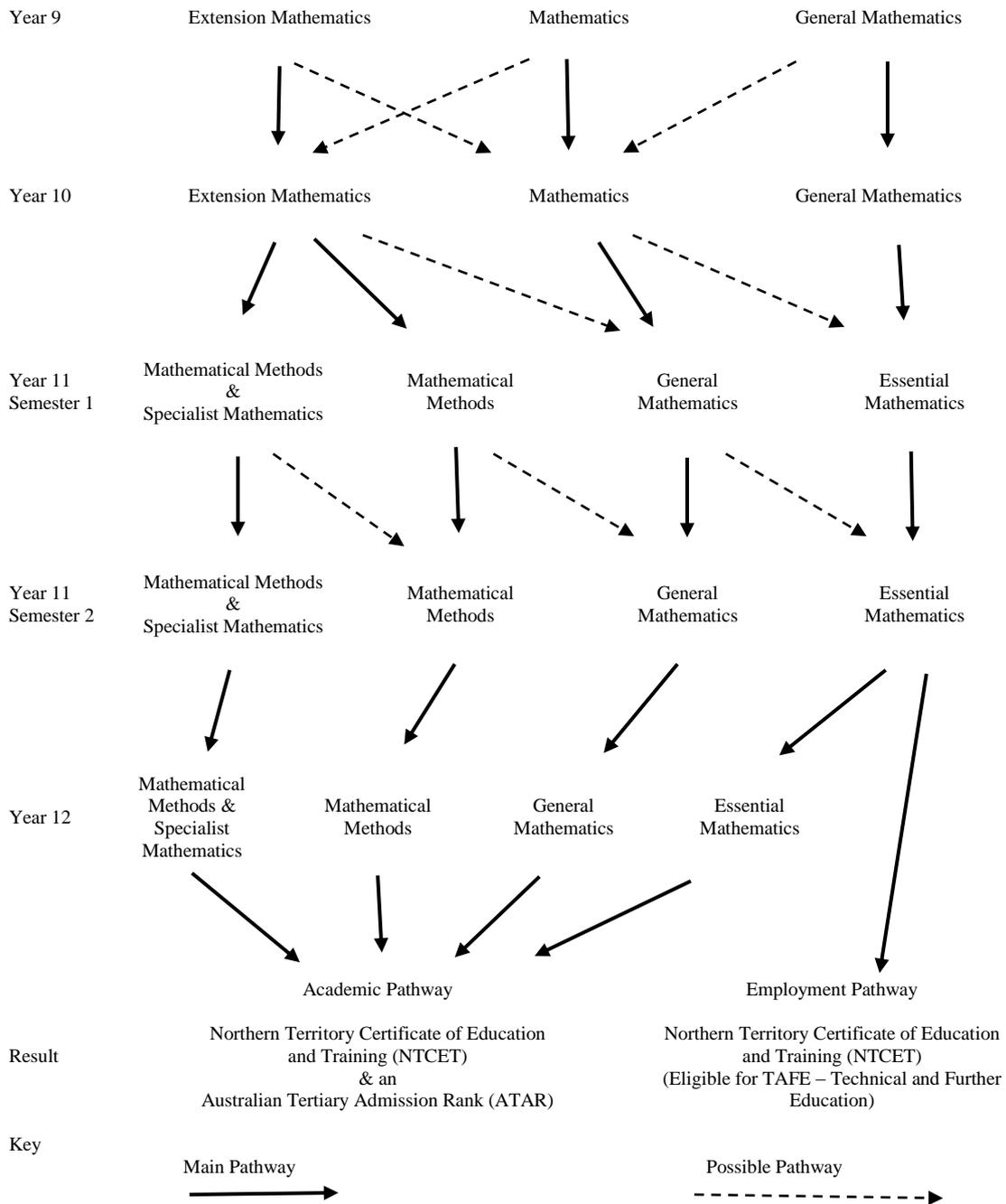
Students who choose Mathematics will study topics such as Equations and Inequalities, Number Plane Geometry, Right Angle and Non Right Angle Trigonometry, Practical Graphs and Earning, Spending, Borrowing and Investing Money. This will be a more practical course designed for those students intending to undertake General Mathematics in the senior school.

GENERAL MATHEMATICS

Students who choose General Mathematics will study basic mathematical topics as well as more practical topics such as Earning, Spending, Borrowing and Investing Money, Practical Measurement and Applied Geometry topics. This will be a more practical course designed for those students intending to undertake Essential Mathematics in the senior school.

Further information can be obtained from Mr Steve Kimber on 8950 6206.

Subject Pathways – Mathematics (Compulsory until the end of semester 1, Year 11)



YEAR 10 PATHWAY SELECTION

NAME : _____

In Year 10 I wish to study the following pathway

ACADEMIC PATHWAY

EMPLOYMENT PATHWAY

If you have chosen the Employment Pathway
you do not complete any other sections of this form

YEAR 10 SUBJECT SELECTION

ENGLISH and MATHEMATICS

In Year 10 I wish to study the following Mathematics Subject (please circle one only)

EXTENSION MATHEMATICS

MATHEMATICS

GENERAL MATHEMATICS

In Year 10 I wish to study the following English Subject (please circle one only)

EXTENSION ENGLISH

ENGLISH

GENERAL ENGLISH

Student's Signature : _____

Parent's Signature : _____

Date : _____

PLEASE TURN OVER

THIS FORM NEEDS TO BE COMPLETED AND RETURNED TO
STUDENT ACCESS BY FRIDAY 19 AUGUST

YEAR 10 ELECTIVE SUBJECT SELECTION FORM

NAME : _____

Please number your preferences in order from 1 to 10

Subject	Preference
Applied Technology - Design and Wood Course	
Applied Technology - Design and Metal Course	
Computing Studies	
Dance	
Drama	
Food Technology - International Cuisine	
French (Full Year Subject)	
Horticulture and Agriculture	
Japanese (Full Year Course)	
Music (One Semester Only)	
Music (Both Semesters)	
Music and Media	
Outdoor Education	
Photography – Digital	
Physical Fitness and Recreation	
Sports Science	
Textile Design – Fabrics	
Visual Arts	

**THIS FORM NEEDS TO BE COMPLETED AND RETURNED TO
STUDENT ACCESS BY FRIDAY 19 AUGUST**