

# Technology Studies

**STAGE 1**  
**Semester 1**

Go-Kart Design and  
Construction

Furniture Design and  
Construction

**STAGE 1**  
**Semester 2**

Go-Kart Design and  
Construction

Automotive Studies  
Automotive Maintenance  
and Servicing

**STAGE 2**

Automotive Technology

Furniture Construction

Automotive Engineering

**STAGE 1**  
**Semester 1**

Technical & Computer Drawing 1

**STAGE 1**  
**Semester 2**

Technical & Computer  
Drawing 1

Technical & Computer  
Drawing 2

**STAGE 2**

Technical Graphics

**STAGE 1**  
**Semester 1**

Electronics 1


**STAGE 1**  
**Semester 2**

Electronics 2

**STAGE 2**

Electronic Systems

**N.B.** If students wish to achieve a Tertiary Entrance Rank (TER), used for entrance into universities, they may study no more than 2 units or 1 full year subject of Technology (this includes Movie Making Technology and Stage 2 Photography) in Stage 2.



Casuarina Senior College aims to provide an outstanding education and quality outcomes for all students through the provision of rich learning experiences and a varied curriculum designed to maximise student engagement.

Students are able to access all subjects without incurring tuition costs. A number of subjects also offer extended learning experiences which are optional and for which the College Council will seek the reimbursement of associated costs from parents of participating students. Examples include additional materials, excursions, etc. Indicative reimbursement costs for subjects containing extra-curricula activities are identified throughout the handbook by an asterisk (\*).

For further information please contact the College on 8920 1211.

# technology studies stage 2

## Automotive Technology

### Subject Description

This subject covers practical activities and the knowledge and responsibilities an owner-driver requires to maintain a motor vehicle or motorcycle in a roadworthy condition.

### Content

A general approach to automotive vehicle operation, maintenance and repair. Basic finance, social and legal responsibility, preventive maintenance, lubrication, cooling, fuel, and electrical systems are included.

### Assessment

- Critiquing Task – 10%
- Product Design and Realisation Task – 60%
- Specialised Skills Task – 30%

Group	Subject Length
2	Full Year

## Automotive Engineering

### Subject Description

This subject provides an alternative pathway for practical, hands-on students who are not seeking a TER. It allows students to gain credit in the NTCET whilst achieving nationally recognised vocational qualifications up to and including Certificate I in Engineering.

### Content

Students study general engineering modules and integrate these with practical mechanical activities. Participation in workplace learning is integral to this course and can be in the form of simulated activities, part-time work or work placement.

### Assessment

Assessment Component 1 : Evidence Folio	70%
Assessment Component 2 : Record of Attainment	10%
Assessment Component 3 : Workplace Reflection	20%

Group	Subject Length
2	Full Year

**Code**  
22566

**SACE Code**  
2SCA2

**Category**  
HESS Restricted

\*\$20 for materials  
and consumables.

**Prerequisite**  
A pass in  
Automotive Studies  
Stage 1 or teacher  
recommendation.

**Code**  
225V1

**SACE Code**  
2EAA2

**Category**  
Non-TER

\*\$50

**Prerequisite**  
Stage 1 Technology  
Studies.

# technology studies stage 2

## Furniture Construction

### Subject Description

This subject provides students with opportunities to develop hand and machine tool skills that will enable them to design and construct functional articles of furniture. This course can provide a pathway to work in the furniture industry, to further tertiary study or to a general appreciation of woodworking.

### Content

- cabinet jointing methods
- finishing techniques
- machine tool operation
- design sketching & realisation.

### Assessment

- Critiquing Task – 10%
- Product Design and Realisation Task – 60%
- Specialised Skills Task – 30%

**Code**  
22568

**SACE Code**  
2MDB2

**Category**  
HESS Restricted

\*\$100

**Prerequisite**  
Stage 1 Furniture Construction would be an advantage.

Group	Subject Length
2	Full Year

## Electronic Systems

### Subject Description

This subject covers the principles and properties of common analogue and digital components and their applications. An analysis of integrated circuits, power supplies and digital circuits is included together with aspects of circuit design and analysis.

### Content

- Power Supply
- Amplifiers
- Printed Circuit Board Design
- Computer Electronic Design Package

### Assessment

- Critiquing Task – 10%
- Product Design and Realisation Task – 60%
- Specialised Skills Task – 30%

**Code**  
22569

**SACE Code**  
2SCB2

**Category**  
HESS Restricted

\*\$80 for project.

**Prerequisite**  
A pass in Electronics 1 or 2 or teacher recommendation.

Group	Subject Length
2	Full Year

# technology studies stage 2

## Technical Graphics

### Subject Description

This subject provides students with opportunities to develop the ability to make informed decisions and empowers them to communicate these solutions through the application of graphic skills and design techniques.

It enables students to develop a better understanding of the design process with the satisfaction of producing interesting and worthwhile designs. Students develop graphic, research, drafting and design skills using CAD or manual drawing procedures. These skills are relevant to the areas of mechanical engineering, architectural design and product or interior design.

### Content

- Mechanical/Engineering Drafting
- Architectural Drafting
- Product and Interior Design
- Computer Aided Drafting and 3D Modelling

### Assessment

Continuous school assessment with final SACE moderation.

- Critiquing Task – 10%
- Product Design and Realisation Task – 60%
- Specialised Skills Task – 30%

### Code

22567

### SACE Code

2CPA2

### Category

HESS Restricted

\*\$20

### Prerequisite

Technical & Computer Drawing 1 or 2 would be an advantage or Teacher recommendation.

**Group**

2

**Subject Length**

Full Year