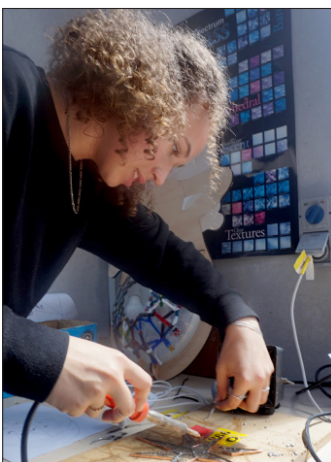


Technologies

Materials, Design and Technologies

Subject	Hours	TCE credit points	LIT	NUM	ICT	Recommended prior studies and/or entry requirements
Design and Production Level 2 – Glass	150	15				• no entry requirements or previous experience
Design and Production Level 2 – Metals	150	15				• no entry requirements or previous experience
Design and Production Level 2 - Textiles	150	15				• no entry requirements or previous experience
Design and Production Level 2 - Wood	150	15				• no entry requirements or previous experience
Automotive and Mechanical Technologies Level 2	150	15				• no entry requirements or previous experience
Computer Graphics and Design Level 2	150	15			✓	• basic computer skills are required
Computer Graphics and Design Level 3	150	15			✓	• solid results in Technologies in Year 10 or successful completion of Level 2
Housing and Design Level 3	150	15			✓	• solid B results in Year 10 English are required
Object Design Level 3 (University Connections Program - UCP)	150	15				• must be studied in conjunction with a Design and Production 2 subject
VET Certificate II in Salon Assistant	300	30				• solid literacy, numeracy and communication skills
VET Certificate II in Automotive Vocational Preparation	300	30				• best suited for Year 12 with previous automotive experience
Pathways to Construction	150	15				• an introduction to the construction industry for Year 11 students
VET Certificate II in Construction Pathways	300	30				• for Year 12 students wishing to enter the construction industry after college
VET Certificate II in Electrotechnology (Career Start)	300	30+				• better suited to Year 12 with a SA in Maths General 3 or a B in Year 10 Maths



Design and Production 2 - Glass

What will I learn?

- a range of techniques to make objects in glass including: cutting, grinding, raking and manipulating glass, fusing and slumping glass, using leadlight and tiffany techniques, polishing, etching, soldering and sandblasting, casting, clay and wax working, using decals and dichro, painting and using the vitrophage, creating mosaics and doing Pate de Verre
- appropriate workplace health and safety requirements.

How will I learn and be assessed?

- very practical, hands-on subject
- internally assessed
- no external exam.

Other

- great for students who want to explore different skills in art
- an excellent subject to complement a rigorous study load.

Design and Production 2 - Metals

What will I learn?

- about using a wide range of industry-standard hand tools and machinery including plasma cutter, MIG, TIG, ARC, OXY welding, lathes and milling machines
- about industry-standard aluminium fabrication techniques
- produce projects from steel and aluminium.

How will I learn and be assessed?

- folio of work which is internally assessed
- no external exam.

Other

- a great foundation for further studies in automotive, fitter and turner, ship building, general engineering.

Design and Production 2 - Textiles

What will I learn?

- about the use of a design process to product objects or prototypes in textiles including fabric, yarn, felt, wool and threads.

How will I learn and be assessed?

- create own projects – two minors and one major which are internally assessed
- develop designs using drawing techniques and technical skills
- create a folio of designs
- no external exam.

Other

- can be studied in conjunction with Object Design
- can lead to further studies in fashion design, art, craft and design, and soft furnishings
- learn skills you will use your whole life.

Design and Production 2 - Wood

What will I learn?

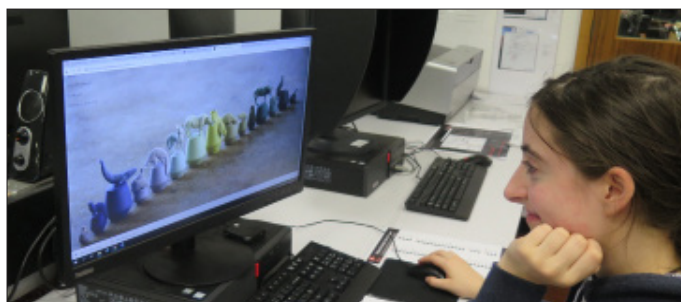
- how to use a wide range of hand and power tools, including large industry-standard wood preparation machinery.

How will I learn and be assessed?

- small and large projects of your choice, internally assessed
- no external exam.

Other

- a great foundation for VET Certificate II in Construction in Year 12 or for life-long skills.



Automotive and Mechanical Technologies 2

What will I learn?

- how to select and use appropriate tools and equipment safely
- techniques used in automotive workshops such as dismantling and reassembling of components and basic services and repairs
- how 4-stroke and 2-stroke and multi- cylinder engines work
- about transmission, ignition, fuel, cooling, electrical and engine management systems.

How will I learn and be assessed?

- undertake practical work on engines, cars or other mechanical systems
- complete worksheets and written reports
- work on a practical automotive or mechanical project
- no external exam.

Other

- great for students who enjoy working in practical situations with an interest in automotive and mechanical systems
- could lead to further study, including VET courses within the automotive area or for life-long skills.

Computer Graphics and Design 2

What will I learn?

- how to use a design process to communicate ideas and develop digital content
- how to use and develop computer graphic techniques and processes to solve problems
- how to create 2D and 3D digital graphics and animation
- develop skills in one of the following elective areas:
 - » interactive design
 - » solid modelling
 - » video and motion graphics
 - » asset development.

How will I learn and be assessed?

- use a range of software packages to produce a digital solution to solve a design challenge
- a major design-based project of your own choice,
- no external exam.

Other

- beneficial for careers in design-related fields including environmental design, drafting, engineering, architecture.

Computer Graphics and Design 3

What will I learn?

- 3D modelling to develop design solutions in products, engineering, architectural visualisation, games, character or movies/ television or visual effects
- the application of design process, principles and practice in specialised contexts
- sketching and graphic communication including orthographic, isometric and perspective drawing
- the fundamentals of contemporary digital technologies in design and computer graphics
- about the impact design has in society including the ethical, cultural and sustainability impacts.
- 2-D and 3-D computer modelling
- various methods of 3-D pictorial representation
- animation
- website design and development without coding.

How will I learn and be assessed?

- use a variety of open source and industry standard software packages including blender and 3Ds Max
- undertake design briefs, research assignments or work on individual major project
- spend time developing skills in two elective areas:
 - » interactive design
 - » solid modelling and 3D fabrication
 - » video and motion graphics
 - » animation
 - » asset development, game design and production.
- a major design-based project of your own choice, assessed externally
- a 2 hour external exam.

Other

- beneficial for careers in design-related fields including environmental design, drafting, engineering, architecture.

Object Design 3 (UCP)

What will I learn?

- offered by the University of Tasmania and taught in conjunction with one of the Design and Production Level 2 subjects at Hobart College
- extend the skills being learned in the Design and Production 2 class.

How will I learn and be assessed?

- attend practical lessons and be supervised by a College teacher
- attend one extra class per week for mentoring
- assessed by UTAS staff.

Other

- students can only enrol in Object Design as a 5th subject
- no additional costs
- scaled Tertiary Entrance Score for ATAR
- gives credit towards first year university studies.

Housing and Design 3

What will I learn?

- about the elements and principles of design
- about sustainability in housing design
- about ergonomic and aesthetic factors in housing and interior design
- about passive solar design
- about interior and exterior materials used in housing.

How will I learn and be assessed?

- sketching, design briefs and challenges
- poster creation
- assignments
- excursions
- negotiated design folio – externally assessed
- 2 hour external exam.

Other

- great foundation for studies in Architecture, environmental design, interior design, landscape design.

VET Certificate II in Salon Assistant

What will I learn?

- how to competently communicate in the workplace, interacting with and providing service to clients and assistance to colleagues
- how to perform shampoo and basin services, hair braiding techniques and colour application
- the introduction to make up application and skin care
- how to stay safe and healthy in the workplace
- the skills employers value in young workers.

How will I learn and be assessed?

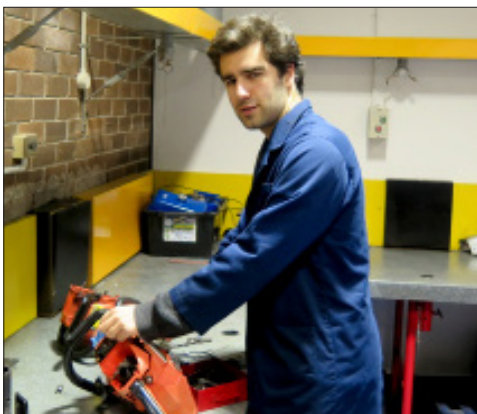
- practical skills in the well-equipped salon
- work in teams
- no external exams.

Other

- a two line VET course
- great for students looking to develop skills for future work in the hair and beauty industry.



SHB20216 Certificate II in Salon Assistant: The Tasmanian Secondary Colleges RTO, code 60100, is the registered training organisation for these qualifications.



VET Certificate II in Automotive Vocational Preparation



What will I learn?

- skills needed to work in the automotive industry
- inspect and identify mechanical and electrical components and systems.
- how to solve problems related to vehicles
- how to stay safe and healthy in the workplace
- the skills employers value in young workers.

How will I learn and be assessed?

- practical skills in the well-equipped workshop
- work in teams
- no external exams.

Other

- a two line VET course
- great for students looking to develop skills for future work in the automotive industry.

AUR20716 Certificate II in Automotive Vocational Preparation: The Tasmanian Secondary Colleges RTO, code 60100, is the registered training organisation for these qualifications.

Pathways to Construction



What will I learn?

- basic skills needed to work in the building industry
- how to safely use tools and equipment.

How will I learn and be assessed?

- practical skills in the well-equipped workshop
- undertake work placements and go on industry tours
- work in teams
- no external exams.

Other

- a ONE line VET course covering units from the Construction training package and the Workshop Techniques Introduction I course
- suited to Year 11 students
- great for students looking to prepare for VET II Certificate in Construction Pathways and develop skills for future work in the building industry.

VET Certificate II in Construction Pathways



What will I learn?

- basic skills needed to work in the building industry
- how to use tools and equipment
- complete the White Card training on how to stay safe and healthy in the workplace
- the skills employers value in young workers.

How will I learn and be assessed?

- practical skills in the well-equipped workshop
- undertake work placements and go on industry tours
- no external exams.

Other

- this course is for Year 12 students
- a two line VET course covering units from the Construction training package
- great for students looking to develop skills for future work in the building industry.

CPC20211 Certificate II in Construction Pathways: The Tasmanian Secondary Colleges RTO, code 60100, is the registered training organisation for these qualifications.

VET Certificate II in Electrotechnology (Career Start)



What will I learn?

- about the skills required to work in the electrotechnology industry (electrical, refrigeration, electronics, telecommunications)
- how to use tools and equipment
- how to stay safe and healthy in the workplace
- the skills employers value in young workers.

How will I learn and be assessed?

- practical skills in the well-equipped workshop
- name and identify electrotechnology components
- problem solve and fix electrotechnology faults
- research possible career paths in electrotechnology
- no external exams.

Other

- a two line VET course
- great for students looking to develop skills for future work in the electrotechnology industry.

UEE22011 Certificate in Electrotechnology: The Tasmanian Secondary Colleges RTO, code 60100, is the registered training organisation for these qualifications.