

Computer Science ITS315118

15 TCE Points



You will work through the following units as part of the subject

Unit 1: Data Representation

The mathematics of computing involving binary and hexadecimal bases. Bits, bytes and floats

Unit 2: Create programs in a high-level programming language

The Java programming language.

Unit 3: Objects and Classes

Object Orientated programming

Unit 4: Computer Architecture

Common circuits in a computer

Unit 5: Computer Algorithms

The Toy Machine.

How you'll be assessed:

Common types of internal assessments are:

- Short quizzes
- Research reports
- Written essays

Create a list of 3 or 4 dot points outlining what students will need to be successful in this subject (examples below)

- Strong research and writing skills are essential
- Consistent, strong attendance is essential in this class
- A natural curiosity about the ancient world and a willingness to discuss your ideas

The external assessment for this subject is a 3-hour exam. The dates for external exams in November are non-negotiable.

COMPLETION OF WORK

Assessment due dates are provided in the Program of Learning and on Canvas. Work must be submitted by the due date unless an approved extension has been granted. Unapproved late submissions will incur penalties as outlined in the *Completion of Work Policy*. Students needing extensions should contact their subject teacher before the due date with valid reasons, such as illness or unforeseen circumstances.

For more details refer to the Launceston College: [Completion of Work Policy](#).

ACADEMIC INTEGRITY

All senior secondary students in Tasmania are expected to uphold academic integrity, meaning they complete their work honestly and fairly. This includes properly referencing any ideas, images, or information borrowed from others, allowing teachers to distinguish between original and sourced content.

Assignments will be submitted through Canvas, email, hard copy as directed in the task sheet.

For more details, refer to the Launceston College: [Academic Integrity Policy](#).

REFERENCING

This is recommended for Computer Science. The standards for criterion 3 state that a student must:

- clearly differentiate the information, images, ideas and words of others from the learner's own
- follow referencing conventions and methodologies correctly
- create appropriate, structured reference lists/bibliographies
- In computer science, any code generated by AI or copied from external sources must be referenced

COURSE DOCUMENT

The TASC website provides considerable information about the course. [Computer Science - TASC](#)

OTHER COURSE REQUIREMENTS

Students will require a

- Notebook
- Scientific Calculator (non-programmable)

Week	Date	Program of Learning 2025	Notes / Assessments
1	6 Feb	Data Representation	<i>Yr 11s and 12's return February 6 (Thursday)</i>
2	10 Feb	Binary Hexadecimal	
3	17 Feb	Floating Point	
4	24 Feb	Calculations	<i>Wed 26 Feb – Launceston Cup</i>
5	3 Mar	Assignment	Due end of week
6	10 Mar	Java programming language	<i>Mon 10 Mar – Public Holiday</i>
7	17 Mar	Scanner, Abstract Windows toolkit graphics	
8	24 Mar	Buttons, Switch statement, Arrays,	
9	31 Mar	Calculator	
10	7 Apr	For and While Loops and Animations	
<i>Term 1 break – Saturday 12 April – Sunday 27 April</i>			
1	28 Apr	Listeners - Keyboard, Mouse and Mouse motion	
2	5 May	Classes and Objects	
3	12 May	Inheritance	
4	19 May	Polymorphism	
5	26 May	Arrays of objects	
6	2 June	Computer Architecture	<i>Fri 6 June - Moderation Day (LC students work from home)</i>
7	9 June	Logic statements and rules	<i>Mon 9 June – Public Holiday</i>
8	16 June	Logic circuits AND OR NOT. Etc	
9	23 June	K-maps	Mid-Year Assessments Level 3 & 4 <i>Start Thursday 26th June – Thursday 3rd July</i>
10	30 June	Circuit simplification and Design Problems	Mid-Year Assessments Level 3 & 4 <i>Start Thursday 26th June – Thursday 3rd July</i>
<i>Term 2 break – Saturday 5 July – Sunday 20 July</i>			
1	21 July	Major Project	
2	28 July	Major Project	
3	4 Aug	Major Project	
4	11 Aug	Major Project	
5	18 Aug	Major Project	
6	25 Aug	Major Project	
7	1 Sep	Major Project	
8	8 Sep	Major Project	
9	15 Sep	Toy Machine	
10	22 Sep	Toy Machine	
<i>Term 3 break – Saturday 27 September – Sunday 12 October</i>			
1	13 Oct	Toy Machine	
2	20 Oct	Toy Machine	
3	27 Oct	Revision and Exam Preparation	
4	3 Nov	Revision and Exam Preparation	<i>Mon 3 Nov – Public Holiday</i>
<i>Exams begin (Monday 10th November) - Exams end (Thursday 20th November)</i>			

ASSESSMENT

Criterion-based assessment helps students see how well they're meeting course outcomes at the end of their study. While there is continuous feedback to guide learning, final assessments focus on showing what students have achieved by the end. Ratings are given as 'A', 'B', or 'C', based on course standards. A 't' indicates partial achievement below a 'C', and a 'z' means no evidence provided.

Criteria

The assessment for Computer Science Level 3 will be based on the degree to which the learner can:

* = denotes criteria that are both internally and externally assessed

1. design, extend and improve algorithmic solutions to a range of problems*
2. create programs in a high-level programming language*
3. use appropriate objects in the design of programs*
4. describe and apply knowledge of computer architecture*
5. analyse how data are represented and stored*
6. apply the software development life cycle to a variety of problems
7. analyse and apply societal, professional and ethical responsibilities
8. apply personal skills to plan, organise and complete activities
9. communicate technological information

Award Requirements

The final award will be determined by the Office of Tasmanian Assessment, Standards and Certification from 14 ratings (9 from the internal assessment, 5 from external assessment).

The minimum requirements for an award in Computer Science Level 3 are as follows:

EXCEPTIONAL ACHIEVEMENT (EA)

12 'A', 2 'B' ratings (4 'A', 1 'B' from external assessment)

HIGH ACHIEVEMENT (HA)

6 'A', 6 'B', 2 'C' ratings (2 'A', 2 'B', 1 'C' from external assessment)

COMMENDABLE ACHIEVEMENT (CA)

8 'B', 5 'C' ratings (2 'B', 2 'C' ratings from external assessment)

SATISFACTORY ACHIEVEMENT (SA)

12 'C' ratings (3 'C' from external assessment)

PRELIMINARY ACHIEVEMENT (PA)

6 'C' ratings

A learner who otherwise achieves the ratings for a CA (Commendable Achievement) or SA (Satisfactory Achievement) award but who fails to show any evidence of achievement in one or more criteria ('z' notation) will be issued with a PA (Preliminary Achievement) award.