ICT Discipline

School of Technology, Environments and Design

College of Sciences and Engineering

------------------------------------------------------------------------------------------------------------------

KIT101
PROGRAMMING FUNDAMENTALS

12.50 Credit points

Semester 1, 2019

Unit Outline

Unit Coordinator
Dr James Montgomery

------------------------------------------------------------------------------------------------------------------
CONTACT DETAILS

Unit coordinator

Unit coordinator: Dr James Montgomery
Campus: Hobart
Email: James.Montgomery@utas.edu.au
Phone: (03) 6226 7294
Room location and number: Centenary Building, room 466
Sandy Bay Campus, Hobart
Consultation hours: 0900–1100 Monday and Wednesday

Other teaching staff

Ms Amanda Lunt
Campus: Launceston
Email: Amanda.Lunt@utas.edu.au
Phone: (03) 6324 3326
Room location and number: Building V, room V168
## CONTENTS

**WHAT IS THE UNIT ABOUT?**  
- Unit Description  
- Intended Learning Outcomes  
- Graduate Quality Statement  
- Alterations to the Unit as a Result of Student Feedback  
- Prior Knowledge &/or Skills  

**HOW WILL I BE ASSESSED?**  
- Assessment Schedule  
- Assessment Details  
- How Your Final Result is Determined  
- Submission of Assignments  
- Academic Referencing  
- Academic Misconduct  
- Student Behaviour  

**WHAT LEARNING OPPORTUNITIES ARE THERE?**  
- MyLO  
- Resources  
- Activities  
- Communication  
- Concerns and Complaints  
- Further Information and Assistance  
- Unit Schedule
WHAT IS THE UNIT ABOUT?

Unit description

This unit will provide students with an overview of programming and its role in problem-solving, and strategies for designing solutions to programming problems with reference to the Java programming language. Beginning with the fundamental characteristics of computers and how they represent information, the unit will develop the concepts of data types, declarations (of the data a program will use), expressions (calculations), statements (actions) and text-based input and output. Building on these low-level constructs the unit will examine ways to manage the complexity in a program with control structures, block structure, methods (functions) and their parameters, culminating in the high-level organisational mechanisms of classes and objects. Students will have the opportunity to explore advanced topics such as error handling using exceptions and recursion.

Intended Learning Outcomes

On completion of this unit, you will be able to:

1. apply code reading and debugging techniques to analyse, interpret, and describe the purpose of program code, and to identify errors in syntax, logic, style or good practice
2. describe the principles of structured programming in relation to syntactical elements of the programming language used and the process of program development
3. construct small programs, in an object-oriented programming language, that include the use and creation of objects, arrays, methods and parameter passing
4. apply functional decomposition to algorithms, document the resulting design, and implement those designs in program code as methods
5. write external program documentation and apply programming conventions to ensure program code exhibits good style
Successful completion of this unit supports your development of course learning outcomes, which describe what a graduate of a course knows, understands and is able to do. Course learning outcomes are available from the Course Coordinator. Course learning outcomes are developed with reference to national discipline standards, Australian Qualifications Framework (AQF), any professional accreditation requirements and the University of Tasmania’s Graduate Statement.

The University of Tasmania experience unlocks the potential of individuals. Our graduates are equipped and inspired to shape and respond to the opportunities and challenges of the future as accomplished communicators, highly regarded professionals and culturally competent citizens in local, national, and global society. University of Tasmania graduates acquire subject and multidisciplinary knowledge and skills, and develop critical and creative literacies and numeracies and skills of inquiry. They demonstrate the ability to apply this knowledge in changing circumstances. Our graduates recognise and critically evaluate issues of social responsibility, ethical conduct and sustainability, are entrepreneurial and creative, and are mindful of their own wellbeing and that of the community. Through respect for diversity and by working in collaborative ways, our graduates reflect the values of the University of Tasmania.

Alterations to the unit as a result of student feedback

Based on both staff and student feedback, and observations of successful teaching practice in introductory programming units at partner institutions, the unit was substantially restructured in 2017:

1. The final written exam (3 hours, open-book, worth 60%) and two major assignments (worth 25%) have been replaced by a collection of in-semester tasks and two in-semester written tests. These tasks form a portfolio of work that demonstrates your attainment of the learning outcomes.
   - Apart from the two tests, all in-semester programming tasks are conducted in an authentic environment with access to a computer and online resources.
   - The two tests assess fundamental skills and knowledge and are not used for assigning a grade. If you do poorly you will have the opportunity to either correct your mistakes or resit a version of the test later in semester.
   - Only a subset of these in-semester tasks, representing the core learning outcomes, must be completed to a reasonable standard in order to pass.
   - The number and difficulty of portfolio tasks has been revised based on experience during the first two deliveries of this new design in 2017.
2. There are fewer hard deadlines, giving you greater freedom to learn—and demonstrate mastery of—the material at your own pace.
   - **Each task is associated with a particular grade** (PP, CR, DN or HD). Obtaining a grade above PP requires that you complete all tasks associated with that higher grade and those below it. Your level within a grade band is determined by the quality of a learning reflection report you submit at the end of semester.

3. Essential lecture content is prerecorded, so you can access it at the time it is relevant. Face-to-face lectures incorporate more demonstrations and activities (so bring a laptop with you if you can).

### Prior knowledge &/or skills

No prior programming experience is assumed.
Assessment schedule

<table>
<thead>
<tr>
<th>Assessment task</th>
<th>Date due</th>
<th>Percent weighting</th>
<th>Links to Intended Learning Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portfolio Tasks</td>
<td>End of Week 13, but submit throughout semester</td>
<td>70</td>
<td>LO1, LO2, LO3, LO4, LO5</td>
</tr>
<tr>
<td>Test 1</td>
<td>During Week 6 lecture</td>
<td>10</td>
<td>LO1, LO2</td>
</tr>
<tr>
<td>Test 2</td>
<td>During Week 11 lecture</td>
<td>10</td>
<td>LO1, LO2, LO3, LO5</td>
</tr>
<tr>
<td>Learning Reflection Report</td>
<td>9am Monday 3 June 2019 (start of Study Week)</td>
<td>10</td>
<td>LO1, LO2, LO3, LO4, LO5</td>
</tr>
<tr>
<td>HD Interview</td>
<td>Conducted during Week 13 or Study Week</td>
<td>0</td>
<td>LO3, LO4, LO5</td>
</tr>
</tbody>
</table>

Assessment details

Assessment Task 1: Portfolio Tasks

Throughout the semester you will work on a collection of learning tasks (categorised as PP, CR, DN or HD level), submitting these for feedback as you complete them. This component of your assessment is divided into 30% for PP tasks, 10% each for CR and DN tasks, 10% for the HD Custom Program and 10% for the HD Project. A pass mark requires only that you complete all PP-level tasks. These tasks will make up most of your learning portfolio, demonstrating your achievement of the unit’s learning outcomes.

Each task has a suggested completion week and a point later in semester after which no further corrective feedback will be given (this varies by task; see Portfolio Tasks/Task Overview on MyLO), so you will need to be submitting (and revising) tasks most weeks.

<table>
<thead>
<tr>
<th>Criterion</th>
<th>Criterion Description</th>
<th>Measures ILOs:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>See the Assessment Criteria section at the top of each task specification</td>
<td>LO1, LO2, LO3, LO4, LO5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Task Length</th>
<th>Due by date</th>
</tr>
</thead>
<tbody>
<tr>
<td>varies</td>
<td>End of Week 13, but submit throughout semester. See Portfolio Tasks/Task Overview for the internal due date (for receiving MyLO-based feedback) for some pass-level tasks.</td>
</tr>
</tbody>
</table>
Assessment Task 2: Test 1

<table>
<thead>
<tr>
<th>Task Description</th>
<th>Criterion Description</th>
<th>Measures ILOs:</th>
</tr>
</thead>
<tbody>
<tr>
<td>A test conducted in the lecture time covering fundamental pass-level skills from</td>
<td>Answers correctly demonstrate the required understanding</td>
<td>LO1, LO2</td>
</tr>
<tr>
<td>the early part of the semester. The test is assessed as pass/fail, but students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>near to passing will have the opportunity to correct their mistakes (and discuss</td>
<td></td>
<td></td>
</tr>
<tr>
<td>their corrections with their tutor), while students receiving a fail grade will</td>
<td></td>
<td></td>
</tr>
<tr>
<td>have the opportunity to resit a variant of the test in Week 11.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task Length</td>
<td>60 minutes</td>
<td></td>
</tr>
<tr>
<td>Due by date</td>
<td>During the Week 6 lecture</td>
<td></td>
</tr>
</tbody>
</table>

Assessment Task 3: Test 2

<table>
<thead>
<tr>
<th>Task Description</th>
<th>Criterion Description</th>
<th>Measures ILOs:</th>
</tr>
</thead>
<tbody>
<tr>
<td>A test conducted in the lecture time covering fundamental pass-level skills.</td>
<td>Answers correctly demonstrate the required understanding</td>
<td>LO1, LO2, LO3, LO5</td>
</tr>
<tr>
<td>The test is assessed as pass/fail, but students near to passing will have</td>
<td></td>
<td></td>
</tr>
<tr>
<td>the opportunity to correct their mistakes (and discuss their corrections with</td>
<td></td>
<td></td>
</tr>
<tr>
<td>their tutor), while students receiving a fail grade will have the opportunity to</td>
<td></td>
<td></td>
</tr>
<tr>
<td>resit a variant of the test in Week 13.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task Length</td>
<td>60 minutes</td>
<td></td>
</tr>
<tr>
<td>Due by date</td>
<td>During the Week 11 lecture</td>
<td></td>
</tr>
</tbody>
</table>

Assessment Task 4: Learning Reflection Report

<table>
<thead>
<tr>
<th>Task Description</th>
<th>Criterion Description</th>
<th>Measures ILOs:</th>
</tr>
</thead>
<tbody>
<tr>
<td>A reflection report on what you have learned in the unit using the supplied</td>
<td>See the Assessment Criteria section in the 12.1PP task specification for passing</td>
<td>LO1, LO2, LO3, LO4, LO5</td>
</tr>
<tr>
<td>report template. The quality of this reflection determines your numerical mark</td>
<td>criteria.</td>
<td></td>
</tr>
<tr>
<td>within the grade for which you have qualified (based on the portfolio tasks</td>
<td>See Essential Information/How your final grade will be determined on MyLO for</td>
<td></td>
</tr>
<tr>
<td>completed). A draft should be submitted during Week 12 to receive feedback before</td>
<td>details of how the quality of the learning reflection report (and other submitted</td>
<td></td>
</tr>
<tr>
<td>submitting the final version. This report must be submitted in order to pass the</td>
<td>work) is used to determine your numerical mark within a grade.</td>
<td></td>
</tr>
<tr>
<td>unit. Failure to submit the report also results in a −1% penalty.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task Length</td>
<td>typically 2-4 pages</td>
<td></td>
</tr>
<tr>
<td>Due by date</td>
<td>9am Monday 3 June 2019 (start of Study Week)</td>
<td></td>
</tr>
</tbody>
</table>
Assessment Task 5: HD Interview

| Task Description | Students potentially qualifying for HD must attend a face-to-face interview with the unit coordinator to briefly discuss your learning in the unit and for you to demonstrate your HD custom program and, if also completed, HD project. Available times for both campuses will be advertised during semester. |

<table>
<thead>
<tr>
<th>Criterion</th>
<th>Criterion Description</th>
<th>Measures ILOs:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Code walkthrough during interview provides verification of the criteria for 7.5HD and 11.1HD (if attempted)</td>
<td>LO3, LO4, LO5</td>
</tr>
<tr>
<td>2</td>
<td>Student is able to talk about and explain their custom program, difficulties and solutions found</td>
<td>LO4, LO5</td>
</tr>
</tbody>
</table>

Task Length 20 minutes
Due by date Conducted during Week 13 or Study Week

How your final result is determined

To pass this unit, you need to demonstrate your attainment of each of the Intended Learning Outcomes.

In order to achieve a pass (or better) result, by the end of semester a student must complete, to a reasonable standard:

1. all pass-level (PP) tasks from Weeks 1 through 9; and
2. Test 1, Test 2 and the learning reflection report

To achieve a PP, CR or DN grade a student must complete, to a reasonable standard, all tasks associated with that grade and lower grades (for example, a DN requires that all PP, CR and DN tasks be completed). An HD grade requires that the student complete all PP, CR and DN tasks as well as the HD Custom Program. Completing an additional HD Project gives access to marks above 90, but is not a substitute for the custom program.

A passing student's final mark (50–100) is determined by:

1. the grade for which they have met the minimum standard (by completing all necessary tasks), which determines the base mark (50, 60, 70 or 80);
2. the quality of the student’s learning reflection report; and
3. for HD, a short interview conducted at the end of semester.

Consequently the assessment item weights given above are indicative only: the tests, PP-level tasks and submitted reflection report combine to produce a mark of at least 50%, while the CR, DN and HD tasks, quality of the reflection report and HD interview contribute toward the remaining 50%.
Borderline grades

Borderline CR and DN grades (60 and 70) are awarded if submitted work is without significant issues, the learning reflection report is of high quality and at least two tasks have been completed from the relevant higher grade (CR or DN).

A borderline PP (50) is awarded if:

- Test 1, Test 2 and the learning reflection report are completed to a minimally acceptable standard;
- at least 13 PP portfolio tasks are completed during the teaching period, and demonstrate the required learning in the portfolio; and
- all other PP portfolio tasks have been submitted to MyLO and are of an adequate standard

Failing grades

If a student does not meet the minimum standard to pass (that is, completing all pass-level tasks, tests and the reflection report) then their final mark (0–49) will be determined based on which pass-level tasks have been completed. A student who misses either test (and its resit) or who does not submit sufficient pass-level tasks during the semester will receive an absent, deemed failed (AN) grade.

Submission of assignments

The act of submitting your assignment will be taken as certification that it is your own work.

All portfolio tasks are to be submitted to the appropriate Assignment folder on MyLO. Students must take responsibility for the correct submission of their work, including ensuring that all items required by the task specification are submitted in the correct format.

Students are expected to adhere to the following procedure for submission:

- Submitted files must be checked by the student to ensure that correct submission of the file has been undertaken. For those items submitted close to their due date and time, students are expected to notify the Unit Coordinator within two hours of submission if their files have not been submitted correctly.
- Students must take responsibility for safely backing up of their own files during the academic year to ensure that no files are permanently lost.

Requests for extensions

Portfolio items submitted after the in-semester due dates will not receive feedback via MyLO, but students may seek feedback from teaching staff in person. No portfolio tasks will be accepted after end of semester deadline except under the conditions
stated in the Discipline policy on late assessment: 
http://www.utas.edu.au/__data/assets/pdf_file/0003/231060/ExtensionPolicy.pdf (PDF 100KB). A request for an extension to the due date for an assessment task should be made in writing and submitted to the Unit Coordinator THREE (3) days before the assignment due date. Independent documentation (medical certificate, counsellor’s report, etc.) in support of the application should be attached to the form OR a current Learning Access Plan may be used as supporting documentation, as appropriate.

If you are ill on the day of a test or have other serious circumstances which prevent you from sitting a test, contact the Unit Coordinator as soon as you are able to. If you are ill, you should see a doctor on the day of the test and the doctor must submit a medical certificate to the Unit Coordinator within 3 working days of the test.

**Penalties**

The task submission folders will close at 9am on Monday immediately after Week 13. No work may be submitted after this time unless an extension has been granted.

The submission folder for the Learning Reflection Report will remain open until 5pm Friday of Study Week, but if submitted after the due time of 9am Monday of Study Week the following penalties will apply:

- Up to 24 hours after the due date: the highest overall portfolio rating possible will be reduced to “medium”
- More than 24 hours and up to 5 days after the due date: the highest overall portfolio rating possible will be reduced to “low”

**Review of results and appeals**

1. It is expected that students will adhere to the following policy for review of any piece of continuous assessment.
   a. Within 5 days of the release of the assessment result, the student should request an appointment with the Lecturer. The student should be prepared to discuss specifically which section of the marking criteria they are disputing and why they consider the mark is inappropriate.
   b. Following this discussion, students may request a formal remark of the original submission (in accordance with Rule of Academic Assessment 111, clause 22.1). This remark will be undertaken, where practicable, by an alternative assessor.

2. Students may also request a review of the final result in a unit. The request and payment must be made within 10 days from the date of the result notification. Students are referred to Rule of Academic Assessment 111, clause 23 and the Review of Assessment form (PDF 68KB).
Academic referencing

In programs you write: If you are guided to a solution by a particular website, include a link to that site in the comment at the top of your program and indicate which parts of your solution are based on its content.

The preferred text referencing systems for the Discipline is the Harvard system (also referred to as the author-date system). In your written work you will need to support your ideas by referring to scholarly literature, works of art and/or inventions. The University library provides information on presentation of assignments, including referencing styles and should be referred to when completing tasks in this unit. For information on presentation of assignments, including referencing styles: http://utas.libguides.com/referencing

It is important that you understand how to correctly refer to the work of others and maintain academic integrity. Failure to appropriately acknowledge the ideas of others constitutes academic dishonesty (plagiarism), a matter considered by the University of Tasmania as a serious offence. The university document on plagiarism contains information about referencing the work or ideas of others (see http://www.utas.edu.au/plagiarism/).

In your written work you will need to support your ideas by referring to scholarly literature, works of art and/or inventions. It is important that you understand how to correctly refer to the work of others, and how to maintain academic integrity.

The University library provides information on presentation of assignments, including referencing styles and should be referred to when completing tasks in this unit.

Please read the following statement on plagiarism. Should you require clarification please see your unit coordinator or lecturer.

Plagiarism

Plagiarism is a form of cheating. It is taking and using someone else's thoughts, writings or inventions and representing them as your own; for example, using an author's words without putting them in quotation marks and citing the source, using an author's ideas without proper acknowledgment and citation, copying another student's work.

If you have any doubts about how to refer to the work of others in your assignments, please consult your lecturer or tutor for relevant referencing guidelines. You may also find the Academic Honesty site on MyLO of assistance.

The intentional copying of someone else's work as one's own is a serious offence punishable by penalties that may range from a fine or deduction/cancellation of marks and, in the most serious of cases, to exclusion from a unit, a course or the University.
The University and any persons authorised by the University may submit your assessable works to a plagiarism checking service, to obtain a report on possible instances of plagiarism. Assessable works may also be included in a reference database. It is a condition of this arrangement that the original author’s permission is required before a work within the database can be viewed.

For further information on this statement and general referencing guidelines, see the Plagiarism and Academic Integrity page on the University web site or the Academic Honesty site on MyLO.

**Academic misconduct**

Academic misconduct includes cheating, plagiarism, allowing another student to copy work for an assignment or an examination, and any other conduct by which a student:

a. seeks to gain, for themselves or for any other person, any academic advantage or advancement to which they or that other person are not entitled; or

b. improperly disadvantages any other student.

Students engaging in any form of academic misconduct may be dealt with under the Ordinance of Student Discipline, and this can include imposition of penalties that range from a deduction/cancellation of marks to exclusion from a unit or the University. Details of penalties that can be imposed are available in Ordinance 9: Student Discipline – Part 3 Academic Misconduct.

**Student Behaviour**

The University Behaviour Policy sets out behaviour expectations for all members of our University community including students and staff.

The aim in doing so is to ensure that our community members are safe, feel valued and can actively contribute to our University mission.

It is expected that community members behave in a manner that is consistent with our University values – respect, fairness and justice, integrity, trust, responsibility and honesty. There are also certain behaviours that are considered inappropriate, such as unlawful discrimination, bullying and sexual misconduct.

The accompanying University Behaviour Procedure sets out the process and avenues that University community members can access to resolve concerns and complaints regarding inappropriate behaviour by a University community member. Wherever possible, the focus will be on early intervention and a ‘restorative’ approach that creates awareness of inappropriate behaviour and its impact on others. However, in some cases, students who engage in inappropriate behaviour may be subject to disciplinary proceedings, which may impact upon continuation of their studies.
Students can seek support and assistance from the Safe and Fair Community Unit SaFCU@utas.edu.au or ph: 6226 2560.

Matters are dealt with in confidence and with sensitivity.

WHAT LEARNING OPPORTUNITIES ARE THERE?

MyLO

MyLO is the online learning environment at the University of Tasmania. This is the system that will host the online learning materials and activities for this unit.

Getting help with MyLO

It is important that you are able to access and use MyLO as part of your study in this unit. To find out more about the features and functions of MyLO, and to practice using them, visit the Getting Started in MyLO unit.

For access to information about MyLO and a range of step-by-step guides in pdf, word and video format, visit the MyLO Student Support page on the University website.

If something is not working as it should, contact the Service Desk (Service.Desk@utas.edu.au, phone 6226 1818), or Request IT Help Online.

Resources

Required readings

N/A

Recommended readings

Java Software Solutions: Foundations of Program Design (9th Ed.) by Lewis and Loftus, 2017 provides additional information, examples and opportunities for programming practice.

Notes on MyLO indicate relevant chapters from this book. It is available from The Co-op Bookshop in the TUU building. A limited number of copies are available in both the Morris Miller and Launceston Campus Libraries.

Reading Lists

Reading Lists provide direct access to all material on unit reading lists in one place. This includes eReadings and items in Reserve. You can access the Reading List for this unit from the link in MyLO, or by going to the Reading Lists page on the University Library website.
Software

The software that you will need to access the unit website and to study this unit, including general purpose software such as word processors, is provided on the computers in the computing labs. If you intend to use software on other computers please check that the versions are compatible.

On campus lab classes will use DrJava (http://www.drjava.org), a simple integrated development environment for Java. In order to compile and run Java programs DrJava requires the Java Development Kit (JDK) version 8: http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html. (The list of options on the JDK download page may be intimidating, but look for a match for your operating system (Mac OS X or Windows and then, if your computer is less than a few years old it is very likely 64-bit, but you should check that first.)

For additional, up-to-date installation guidance see the Software topic in the Essential Information module on the unit’s MyLO site.

Other Required Resources

COMPUTING FACILITIES

The Discipline of ICT has PC labs, Mac labs, and special purpose Networking labs at the Newnham and Sandy Bay campuses. All students are provided with logins for Windows, Macintosh and Unix environments. If you have not used these facilities before please contact the ICT Help Desk. If you would like to access these facilities after hours please contact the ICT Help Desk.

USE OF FACILITIES

Use of computing facilities provided by the Discipline of ICT is subject to the Discipline’s Ethics Guidelines, details of which are posted at http://www.utas.edu.au/technology-environments-design/ict/current-student-resources/ethics-guidelines.

Copies of the guidelines are also available in all ICT labs. The Discipline’s facilities may only be used for study related purposes, and may not be used for personal gain. Antisocial behaviour in labs such as game playing, viewing pornography, loud discussion, audio without the use of headphones, etc is strictly prohibited in all labs at all times.

Eating, drinking, and smoking is not permitted in the labs. Before being granted access to the Discipline’s facilities, you will be required to sign a declaration that you have read and understand these guidelines, and that you will abide by them. You will also be required to complete the relevant MyLO course to gain access. Disciplinary action may be taken against students who violate the guidelines. Details about gaining access to the labs can be found at ICT Reception.
Activities

Learning expectations

The University is committed to high standards of professional conduct in all activities, and holds its commitment and responsibilities to its students as being of paramount importance. Likewise, it holds expectations about the responsibilities students have as they pursue their studies within the special environment the University offers.

Students are expected to participate actively and positively in the teaching/learning environment. They must attend classes when and as required, strive to maintain steady progress within the subject or unit framework, comply with workload expectations, and submit required work on time.

Details of teaching arrangements

Lectures: 2 hours/week, including information, demonstrations and time for small-group activities. Lectures will not always take the full two hours. Attendance is mandatory in weeks when the tests are scheduled. (Off-campus students must watch the live lecture recording in scheduled weeks and attend campus for tests.)

Tutorials: 2 hours/week, beginning in Week 2 of semester. (Off-campus students attend weekly online web conference with tutor. Contact the unit coordinator in Week 1 to make arrangements.)

Online prerecorded lectures: 1–2 hours/week, predominantly in the first half of semester, depending on which topics you need to study or choose to review.

Tutor consultation: times listed online, where you can gain additional assistance, demonstrate your work and have tasks marked as complete.

Teaching and learning strategies

This unit is taught through a combination of prerecorded short lectures, online notes, face-to-face lectures (including demonstrations and activities you can do on paper and your own machine) and tutorials in computer labs. The assessment is largely based on the activities you start in the labs and finish in your own time, plus two compulsory in-semester tests and an end of semester learning reflection report.

As the two tests are held during the normal lecture time, attendance on those dates is mandatory, and attending all lecture sessions is strongly recommended. If you cannot attend a face-to-face lecture then you must watch the recording later.

Learning anything, but particularly a creative and practical skill like programming, requires practice. Tutorials are your opportunity to practise, receive assistance and to work on the tasks that will form your portfolio of work. Tutors will provide assistance during tutorials on tasks prior to their first submission. Each task you submit for assessment through MyLO will then be graded by your tutor, who will either mark it
as complete or assign a status indicating more needs to be done. If you need additional help to revise a previously submitted task then see any tutor during consultation times. Using tutorials for new work (before you submit it) and consultation time for revising previous incomplete submissions will keep you on track to pass and ensure tutors can provide assistance to everyone.

Only 'Completed' tasks count towards passing the unit. Often your tutor will assign the status 'Discuss', indicating you will need to spend time in the tutorial or consultation time discussing and demonstrating your work before they mark it as complete.

In this unit, your active engagement will be monitored in the following way:

1. Attendance at tutorials in Weeks 2–4
2. Submission of all Week 1 and 2 pass-level tasks (that is, tasks 1.nPP and 2.nPP) and at least one Week 3 pass-level task (the tasks do not need to be marked as complete by Week 4, only submitted for feedback)
3. Viewing at least Section 1 of the introductory programming notes on MyLO.

If you do not demonstrate evidence of having engaged actively with this unit by completing these three activities by Week 4 of semester then your enrolment may be cancelled or you may be withdrawn from the unit.

Work Health and Safety (WHS)

The University is committed to providing a safe and secure teaching and learning environment. In addition to specific requirements of this unit you should refer to the University’s Work Health and Safety website and policy.

Communication

News and announcements will be posted to the unit’s Announcements stream on MyLO, and students are expected to be aware of the content of these items within 48 hours of them being posted.

Questions on any topic that have not been answered in the descriptions in the Unit Outline or instructions on MyLO can be asked in class, during consultation times, or in the Discussion Forum on MyLO. Questions on the Discussion Forum will be responded to within the same discussion within 72 hours during semester time.

Concerns and complaints

The University is committed to providing an environment in which any concerns and complaints will be treated seriously, impartially and resolved as quickly as possible. We are also committed to ensuring that a student may lodge a complaint without fear of disadvantage. If you have a concern, information about who to contact for assistance is available on the ‘How to resolve a student complaint’ page.
Further information and assistance

If you are experiencing difficulties with your studies or assignments, have personal or life-planning issues, disability or illness which may affect your course of study, you are advised to raise these with the unit coordinator in the first instance.

There is a range of University-wide support services available to you including Student Learning Support, Student Advisers, Disability Services, and more which can be found on the Student Support and Development page of the University website.

Should you require assistance in accessing the Library, visit their website for more information.

HELP DESK (DISCIPLINE OF ICT)

Contact the ICT Help Desk if you have any queries or problems with accessing, using, or printing from the computers in the Discipline of ICT labs.

In Hobart the Help Desk is located on level 3 in the Centenary Building, and is open from 10:00am–12:00pm, and 2:00pm–4:00pm Monday to Friday. The phone number is 6226 2929.

In Launceston the Help Desk is located near the entrance to the computing labs and is open from 10:00am–12:00pm, and 2:00pm–4:00pm Monday to Friday. The phone number is 6324 3447.

Both help desks will accept queries over the phone outside the standard opening hours.

The computer labs at the Cradle Coast Campus are maintained by ITS please contact the University Help Desk for assistance with these computers.

DISCIPLINE WEBSITE

Discipline of ICT, School of Technology, Environments and Design College of Sciences and Engineering http://www.utas.edu.au/technology-environments-design/ict

COLLEGE WEBSITE

Information and Resources for College of Sciences and Engineering students are available on the College website at: http://www.utas.edu.au/scieng

UNIVERSITY WEBSITE

Information and Resources for 'Current Students' are available on the university website at: http://www.utas.edu.au/students/

Unit schedule

Refer to Portfolio Tasks/Task Overview on MyLO for the suggested schedule for completing learning and assessment tasks. Online and face-to-face lectures align with the tasks scheduled to start each week.