

Otumoetai College

NCEA Level 1 Digital Science – (L1DISC) 2018

Digital Science – L1DISC					(TIC: Mr Walker)
<i>Course Relationship to the National Vocational Pathways</i>					
Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Services Industries	Social & Community Services	Creative Industries
0	26	10	7	0	16
Course Entry	Entry is open, but subject to approval by the HOD and dependant on proven performance in Year 10.				
Course Overview	This course introduces a wide range of Digital science topics and focusses on using a development methodology and the concepts of computational thinking to solve problems. Topics include: algorithms, encryption, programming and web design.				
Assessment	This course will be assessed using Digital Technology Achievement standards. The assessment will require students to learn and develop new skills in order to apply them to solving problems. Assessment is a combination of internally and externally assessed standards.				
Cost Materials	Consumables including paper exceeding the initial student paper allowance				\$20.00

Course 'Aims'
 A course designed to develop and apply important problem solving skills that are needed in a technologically driven society and also prepare students for NCEA Level (and scholarship) examinations.

Assessment Programme
 This course offers up to 24 achievement standard credits. Both theory and practical skills are assessed.

<i>91885</i>	<i>Demonstrate understanding of searching and sorting algorithms</i>	<i>3 Internal</i>
<i>91879</i>	<i>Develop a digital outcome to manage data</i>	<i>4 Internal</i>
<i>91882</i>	<i>Develop a computer system</i>	<i>4 Internal</i>
<i>91884</i>	<i>Use basic iterative processes to develop a digital outcome</i>	<i>6 Internal</i>
<i>91886</i>	<i>Demonstrate understanding of human computer interaction</i>	<i>3 External</i>
<i>91883</i>	<i>Develop a computer program</i>	<i>4 Internal</i>

Assessment Opportunity
 In this department there will be one opportunity for resubmission of a piece of work. A 90% completion rate would be expected the first time around. A resubmission can occur when a student has made mistakes which he or she should be capable of discovering and correcting on their own. By definition, the problem should be capable of rapid resolution. If a resubmission is offered, it must take place before the teacher gives any feedback to the whole class (or any student) on the work done. If more teaching has occurred after the first assessment opportunity, resubmission is not possible, however a completely new assessment could be made available if possible. This will only be an option where they have chosen for unacceptable reasons not to take the first opportunity.

Derived Grades
 These are only available for external standards and will be based on evidence from practice examinations and / or draft reports already completed.

Work Deadlines and Lateness
 Where a deadline has been set as a requirement for a piece of assessment the teacher will, in fairness to the other students, penalise the late student's work. The penalty will prevent a student from gaining a merit or excellence. A note with an acceptable excuse for lateness will be accepted providing that it is handed in at least 48 hours prior to the deadline.
 Refer to the College wide policy relating to absences on assessment dates.

How to Appeal a Grade

Appeals against internally assessed grades awarded should be made following the procedure outlined in the school policy on appeals. Students wishing to appeal a grade must do so within 48 hours of receiving notification of their assessed grade.

Storage of Student Work

The Business and ICT department will retain all student assessment material until it is no longer required by NZQA for moderation purposes.

Authenticity

Except where specified for some group tasks, all work is to be your own work and all assessment tasks will require a signed statement of authenticity from students. All submitted work must be correctly referenced.

Marking and Moderation

Students' work will be marked by their subject teacher following NCEA assessment schedules. For marking consistency, some assessment tasks may be marked by the same teacher for all classes, or two or more teachers may be given a different section of the assessment to mark for all students. Moderation will take place at the beginning and end of each assessment as per Otumoetai College specification.

Resources and Texts

Generally, the Business/IT Department will supply all text resources, and practical equipment. These will need to be returned when finished with. If students wish to use additional texts or resources, this is permissible.

Student expectations

- Ensure that you understand the assessment policy.
- Attend class
- Take responsibility for your work and hand in on time
- Take part in home learning – use resources and links to expand your knowledge.
- Ask for help
- Follow class rules
- Ask questions