

OTUMOETAI COLLEGE
NCEA DIGITAL SCIENCE LEVEL 3 – (L3DISC) 2019

| DIGITAL SCIENCE – L3DISC | | | | | (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 |
| - | 22 | 8 | 8 | - | 10 |
| Course Entry | Entry is subject to gaining 12 credits in L2DISC and/or approval by the HOD. | | | | |
| Course Overview | This course builds on concepts learned in Level 2 Digital Science. The course builds on the design and development of algorithms in order to create a program with a Graphical User Interface. The course further develops the idea of using data to predict patterns and target different groups of people through the development of database solutions. A third aspect of the course is to look at wide area networks. | | | | |
| 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 28 achievement standard credits. Both theory and practical skills are assessed.

| Number | Title | Credits | Internal External |
|--------|---|---------|----------------------|
| 91900 | Conduct a critical inquiry to propose a digital technologies outcome | 6 | Int |
| 91901 | Apply user experience methodologies to develop a design for a digital technologies outcome | 3 | Int |
| 91902 | Use complex techniques to develop a database | 4 | Int |
| 91906 | Use complex programming techniques to develop a computer program | 6 | Int |
| 91907 | Use complex processes to develop a digital technologies outcome | 6 | Int |
| 91908 | Analyse an area of computer science | 3 | Ext |

Assessment Opportunity
 The class will be offered a second Assessment opportunity, for all of the internal standards assessed, subject to the student having made an honest effort the first time around and have handed it in by the due date. A 90% plus completion rate would be expected the first time around. A late submission can only receive an achieved. The second assessment in most circumstances will be similar but not necessarily the same as the first assessment.

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. 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
- Extend your knowledge outside the classroom – use links and resources.
- Ask for help
- Follow class rules
- Ask questions