



# Otumoetai College

## Mathematics Department

### National Certificate in Educational Achievement

### Level 3 Statistics and Probability (L3STATA)

### 2017

To the students:

This course is designed to prepare students for tertiary study which may involve statistics. L3STATA is designed to support more mathematically able students, including those who may wish to attempt the Scholarship Statistics examination.

#### Resources:

Students may purchase a copy of workbooks on key standards in order to supplement their study. Your teacher will have more information on these.

While not necessary, students in L3STATA may benefit from a Graphics Calculator, (such as a Casio FX 9750GII or similar) for the external standards in this course. Note that NZQA has a list on its website of approved calculators for use in external examinations.

#### ICT Policy:

Use of computers, networks and ICT equipment is critical for many of the internally assessed standards. Participation in this course is dependent on the use of the college's ICT facilities. Students are expected to comply with the school's ICT policy. Breaking this agreement may be grounds for removal from this course.

#### Assessment:

Each course consists of six Achievement Standards. Four internally assessed topics and two externally assessed topics

#### L3STATA – Statistics and Probability

Standard	Assessment	Title	Credits	Term
AS91580	Internal	Investigate time series data	4	1
AS91581	Internal	Investigate bivariate measurement data	4	1
AS91582	Internal	Use statistical methods to make a formal inference	4	2
AS91583	Internal	Conduct an experiment to investigate a situation using experimental design principles	4	3
AS91584	External	Evaluate statistically based reports	4	2,3
AS91586	External	Apply probability distributions in solving problems	4	3-4

Achievement Standard, AS 91580, will be due in Week 6 of Term 1.

Achievement Standard, AS 91581, will be due in Week 11 of Term 1.

Achievement Standard, AS 91582, will be due in Week 10 of Term 2.

Achievement Standard, AS 91583, will be due in Week 5 of Term 3.

Note that for AS 91583 (Experiments), **students MUST be present** in their Statistics class for the data gathering phase of the assessment. In 2017, this is scheduled for Monday, 21<sup>st</sup> August. Students who are absent (for any reason, including illness or other school commitments) will be unable to meet the requirements of this assessment.

Each Achievement Standard will be awarded its own separate grade.

### **Externally Assessed Standards**

The New Zealand Qualification Authority sets the examination papers. What you do on the day of the examination will determine the level of achievement you will be awarded in each of the externally assessed Achievement Standards.

### **Internally Assessed Standards**

The College is responsible for conducting this assessment for qualification. There will be no further assessment opportunities of internal assessed Achievement Standards.

### **College Examinations**

All College assessments and examinations are compulsory.

### **Scholarship Examination**

Students wishing to attempt the Scholarship Statistics examination would benefit greatly from being in L3STATA. Additional Scholarship classes will be offered outside of normal class times. Students wishing to sit Scholarship have the option of attempting a third external assessment.

### **Recording marks**

Your teacher will keep **ALL** assessed work for the internal Standards.

At some time during the year you will be asked to confirm and sign that the data entry on the College database is an accurate record of your results throughout the year.

### **Moderation between Classes**

All assessments are common to all classes and have a common marking schedule.

Inter-class moderation is achieved by check marking across the classes.

Samples of student work will be sent to NZQA to compare with student work from other secondary schools to ensure consistency of standards.

### **Authenticity of Student Work**

All work must be the student's own. If a staff member is in doubt the student will be asked to provide further evidence, orally or in writing, by explaining or solving a similar problem etc. An inadequate explanation will result in no achievement grade being awarded. NZQA Policy will be followed.

### **Appeals**

If a student is not satisfied with a particular assessment result, the student must discuss it with the class teacher within 24 hours of the assessment being handed back. The assessment **does not** leave the classroom.

Students not satisfied with the discussion should approach the Head of the Mathematics Department (Mr Ellwood) as soon as possible, to collect an application form for appeal within 48 hours, provided the assessment does not leave the room and is handed onto the Head of the Mathematics Department, by the classroom teacher.

### **Derived Grades**

It is necessary to achieve to your full potential throughout the year in all assessments in case the need arises for you to seek a Derived Grade in the final external examination.

### **Resubmission**

You may be asked to resubmit an assessment to correct a minor error, but there will be no further assessment opportunities in this course

**Storage of Student Work**

The College will keep all student work for internally assessed standards until such time as it is no longer required for moderation purposes.

It is expected of you to satisfactorily prepare yourself for each Achievement Standard Assessment through the guidance of your teacher.

A handwritten signature in black ink, appearing to read 'J. Ellwood', written in a cursive style.

**Jason Ellwood**  
**HOD Mathematics**  
**February 2017**