AVONSIDE GIRLS HIGH SCHOOL
STATISTICS AND MODELLING, MSM323
COURSE STATEMENT 2009

General Aims
- To develop effective problem solving and investigation skills
- To develop skills in statistical thinking and the interpretation of data

Equipment
Students are required to have a scientific calculator or a graphics calculator. There is now considerable advantage in having a graphics calculator both in classroom learning and in the external examinations.

Course Content and Learning Outcomes
This course offers 20 Level 3 credits from an approved subject for University Entrance. We are aiming at the Achieved level and will not cover the requirements for Excellence. We also offer students the opportunity to do 5 Level 2 credits. Topics to be studied are listed in the Assessment Programme over the page. At the start of each topic you will be given a handout which will list the learning outcomes (objectives) for the topic. These reflect Achievement Objectives at Levels 7 & 8 of the National Curriculum.

Recording results
The level of achievement for an assessment will be indicated on the task when it is handed back to students. The class teacher will hold a master copy of the results, however students are encouraged to keep their own record on the tracking sheet provided.

Appeals
Any queries about an assessment decision should be made to your class teacher when the assessment is handed back. Any formal appeals should be made **within one school week** of receiving a result. Any dispute over the grade for an assessment will be investigated by Mrs Bull (Head of Department), or Ms Lynch (NZQA Liaison in term 1) or Mrs Butler (NZQA Liaison terms 2, 3 & 4).

Work done in pencil or which has 'white-out' corrections cannot be reconsidered for appeals.

Further assessment opportunities
There will be opportunity for one reassessment for each Internal Achievement Standard or Unit Standard. This will be offered to all eligible students regardless of the level of achievement in the first assessment.

Attendance and Organisation
If you are absent from class it is your responsibility, when you return, to find out about work missed and any new announcements about assessments. Being well-organised is the key to success. This means bringing calculators and textbooks to class; it also means making time to do homework which is set to help you master the skills covered in class.

MSM323
TEACHING & ASSESSMENT PROGRAMME 2009
STUDENT TRACKING SHEET

	Achievement Standard details	*Achievement Standard descriptor*	*Assessment timing*	*Grade achieved*
Term 1				
Weeks 1 - 5	Introduction to probability and the normal distribution US 5250 (v4) Level 2 Internal 2 credits	Use probability techniques to solve problems	Unit Standard Week 6	
Weeks 6 - 7	Introduction to graphs and modelling US 5253 (v3) Level 2 Internal 3 credits	Sketch and describe graphs	Unit Standard Week 8	
Weeks 8 - 10	Curve fitting			
Term 2				
Weeks 1 - 2	Curve fitting AS 90647 (v3) Level 3 Internal 3 credits	Use a mathematical model involving curve fitting to solve a problem	Internal NCEA task Week 2 Reassessment Week 3	
Weeks 3 - 6	Time series AS 90641 (v2) Level 3 Internal 3 credits	Determine the trend for time series data	Internal NCEA task Week 6 Reassessment Week 7	
Weeks 7 - 10	Probablility distributions AS 90646 (v2) Level 3 External 4 credits	Use probability distribution models to solve straightforward problems	Topic test (formative) Week 10	
Term 3				
Weeks 1 - 2	Probability problems	Solve straightforward problems involving probability	Topic test Week 2	
Weeks 3 – 5	Confidence intervals AS90642 (v2) Level 3 External 3 credits	Calculate confidence intervals for population parameters	Topic test (formative) Week 5	
Week 6	School exams		Formative assessments for external exams	
Weeks 7 – 10	Bivariate data AS 90645 (v2) Level 3 Internal 3 credits	Select and analyse continuous bi-variate data	Internal NCEA task Week 10 Reassessment Term 4	
Term 4				
Weeks 1 - 3	Probability problems AS 90643 Level 3 External 4 credits	Solve straightforward problems involving probability		
Weeks 4 - 5	Revision for externals			

Note that the exact date for internal assessments will depend on the availability of a computer room