

**Ringwood Secondary College**  
**2017 Course Planning Document**

## **VCE Unit 2 Computing**

### **Time Allocation**

This unit of work will consist of approximately 100 hours of which at least 50 hours will be class time. **To complete this unit of work satisfactorily, students must complete each of the following learning outcomes.**

### **Learning Outcomes**

#### **Outcome 1**

On completion of this unit the student should be able to design working modules in response to solution requirements, and use a programming or scripting language to develop the modules.

#### **Outcome 2**

On completion of this unit the student should be able to apply the problem-solving methodology and use appropriate software tools to extract relevant data and create a data visualisation that meets a specified user's needs.

#### **Outcome 3**

On completion of this unit the student should be able to apply the problem-solving methodology to create a solution using database management software, and explain the personal benefits and risks of interacting with a database.

### **Assessment Tasks**

#### **1. Design and code a software solution**

The student is required to focus on using a programming or scripting language that can support object-oriented programming to create working software modules.

**Weighting:** This task is worth 20% of the overall grade

**Time allocated to task:** 5 periods

**Due: Term 3, Week 5**

#### **2. Use software to analyse and visualise data**

The student is required to learn to use software tools to access, select and, where appropriate, manipulate authentic data from large data repositories, and to present the key aspects of the data in an appropriate visual form.

**Weighting:** This task is worth 20% of the overall grade

**Time allocated to task:** 5 periods

**Due: Term 3, Week 9**

#### **3. Investigate Database Design**

The student is required to examine the structure of databases and their applicability in a range of settings.

**Weighting:** This task is worth 20% of the overall grade

**Time allocated to task:** 5 periods

**Due: Term 4, Week 5**

#### **4. Semester Examination**

The student is required to apply knowledge and understanding of programming design and constructs, data and data visualisation and database design and implementation.

**Weighting:** This task is worth 40% of the overall grade

**Time allocated to task:** 90 minutes

**Due:** Term 4, Week 7