**Sample Assessment Outline**

Computer Science

ATAR Year 12

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# Sample assessment outline

# Computer Science – ATAR Year 12

## Unit 3 and Unit 4

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Assessment type**  | **Assessment type weighting**  | **Assessment task weighting** | **Due date** | **Assessment task** |
| Project | 40% | 15% | Semester 1Weeks 5–8 | **Task 1:** Using the framework for development, create an object-oriented program for a business client that requires a two‑dimensional array, creation of classes, program control structures and good programming practices. |
| 25% | Semester 2Weeks 10–13 | **Task 6:** Develop and implement an integrated database programming solution using a software development framework that combines both programming skills and concepts with database creation and manipulation. |
| Theory test | 10% | 5% | Semester 1Week 10 | **Task 3:** A series of short and extended answer questions based on programming content with a focus on ethical and legal implications of software development. |
| 5% | Semester 2Week 5 | **Task 5:** A series of short and extended answer questions based on Network communications and Cyber Security concepts, including the interpretation and creation of network diagrams using specified CISCO conventions to represent network topologies, considering addressing, subnets, segmentation, security and performance. |
| Practical test | 10% | 5% | Semester 1Week 8 | **Task 2:** A practical test that focuses on a series of programming items that increase in difficulty. These programming items include debugging errors, dictionaries and classes. |
| 5% | Semester 2Week 14 | **Task 7:** A practical test to complete the creation and manipulation of a relational database management system (RDBMS) and use structured query language (SQL) to query required data, which can include enforcing referential integrity, DELETE, INSERT, inner joins, calculated and concatenated fields.  |
| Examination | 40% | 15% | Semester 1Week 16 | **Task 4:** Semester 1 Examination – three hours using the examination design brief from the ATAR Year 12 syllabus. Section One, short answer, 20–30 questions (40%); Section Two, extended answer, four to six questions (60%). |
| 25% | Semester 2Week 16 | **Task 8:** Semester 2 Examination – three hours using the examination design brief from the ATAR Year 12 syllabus. Section One, short answer, 20–30 questions (40%); Section Two, extended answer, four to six questions (60%). |
| **Total** | **100%** | **100%** |  |  |