School of Mathematics

Course 362 — Computer Engineering (SS Mathematics)

Lecturer: Dr. J.B. Grimson, Mr. Robert Wall (Computer Science)

Requirements/prerequisites: 372

Duration: 24 weeks

Number of lectures per week: 5 in Michaelmas term, 4 in Hilary term

Assessment: Course work

End-of-year Examination: One 3-hour examination

Description: The course is divided into three parts:

- 1. File organisation and database management
 - basic file organisation techniques including sequential, ISAM, VSAM, direct access, B-trees, inverted files, multi-lists
 - overview of database management including architecture of DBMS, concurrency control, recovery, security, integrity
 - introduction to relational DBMS using Oracle SQL, normalisation.
 - overview of software engineering principles
- 2. LISP and an introduction to artificial intelligence.

October 17, 2000

2000-01