SE 3F03 MACHINE-LEVEL COMPUTER PROGRAMMING
COURSE OUTLINE

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LECTURE NOTES

(1) Unix commands
(2) The shell
(3) Basic sed by examples
(4) Hardware basics
(5) Assembly basics
(6) Basic assembly instructions
(7) Assembly directives
(8) Makefiles
(9) Subprograms I
(10) Subprograms II
(11) Subprograms III
(12) Bit operations I
(13) Bit operations II
(14) Example: finding prime numbers
(15) Arrays
(16) Array string instructions
(17) Structures, C++ and assembly
(18) Floating-point: registers
(19) Floating-point: instructions
(20) Software optimizations
(21) Finding constants in big-O notation
(22) C pointers