I. Know how to use truth tables:
   • To show two statements equivalent.
   • To prove a statement is a tautology or a contradiction.
   • To show that an argument is valid.

II. Know how to translate from English to formal logic.
   • Standard “or” versus “exclusive or.”
   • Variety of ways to express a conditional.
   • Know how to negate a statement.

III. Logical arguments:
   • Know the basic valid arguments (modus ponens, disjunctive syllogism, universal instantiation etcetera). The names are not as important as an ability to use them well.
   • (*) Knights and knaves problems.
   • (*) Solution of a logic puzzle: 1) Identify the basic predicates, 2) translate the complex statements, 3) derive a conclusion using valid arguments.

(*) Level 2 problems.