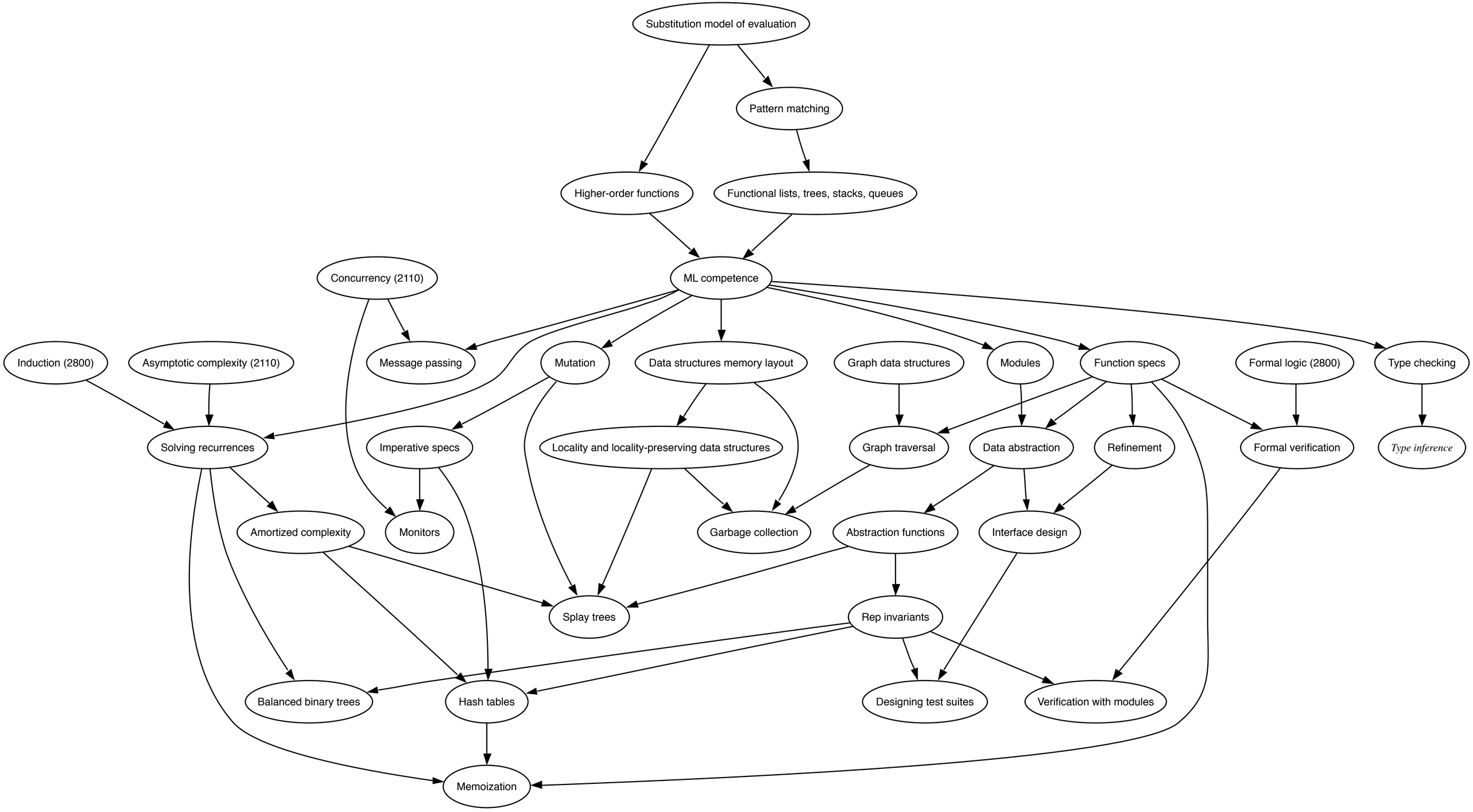
Substitution model of evaluation
Pattern matching
Higher-order functions
Functional lists, trees, stacks, queues
ML competence
Concurrency (2110)
Induction (2800)
Asymptotic complexity (2110)
Message passing
Mutation
Data structures memory layout
Graph data structures
Modules
Function specs
Formal logic (2800)
Type checking
Solving recurrences
Imperative specs
Locality and locality-preserving data structures
Graph traversal
Data abstraction
Refinement
Formal verification
Type inference
Amortized complexity
Monitors
Garbage collection
Abstraction functions
Interface design
Splay trees
Rep invariants
Balanced binary trees
Hash tables
Designing test suites
Verification with modules
Memoization