EH102 Exam Study Guide

## Basic syntax

* Loops (for, while, do)
* Conditional statements (if, else, switch, case)
* Primitive data types (int, double, float, short, byte, char, boolean)
* Methods
  + Parameters, return types
  + Overloading
* Casting
* Boxing / unboxing

## Objects

* Classes (this)
* Constructors (default, implicit, explicit)
* Inheritance (extends, super)
  + Overriding methods
  + References (variable type vs. object type, etc)
* Static variables and methods
* Access modifiers (public, protected, private)
* Generics
  + Generic methods and classes
  + Bounded types
* Abstract classes and methods
* Interfaces (implements)

## JDK Classes

* String (manipulation, comparison)
* Console I/O (System.in, System.out)
* Collections (ArrayList, HashMap, etc)

## Design

* Encapsulation (getters and setters)
* Naming conventions (camel case etc)
* Exception handling (try, catch, finally)