

Aug 23	Intro class	Organizational issues
Aug 27	Lecture 1	Self-introduction Introduction to C: program structure, memory model, scopes & blocks
Sept 3	Lecture 2	The notion of type, static vs dynamic, C type system, pointers & arrays
Sept 10	Lecture 3	Basics of C: dynamic memory management, statements, expressions
Sept 17	Lecture 4	Basics of C: structures, bit-fields, unions, enumerations
Sept 24	Lecture 5	Introduction to Java; OO approach to programming; Classes and instances of classes; Creating objects; Value and reference types
Oct 1	Midterm exam	
Oct 8	Lecture 7	Constructors; The notions of 'this' and 'null'; Methods & method parameters; Method overloading Instance and class attributes & methods
Oct 15	Lecture 8	Packages in Java; Introduction to inheritance; Single & multiple inheritance; The notion of sub-object.
Oct 22	Lecture 9	Method overriding as the basis for polymorphism; Static & dynamic types; Polymorphism
Oct 29	Lecture 10	Object base class; Downcasting & type checks; Abstract classes and methods; Final methods
Nov 5	Lecture 11	Interfaces; Some useful idioms: Singleton & Bridge patterns
Nov 12	Lecture 12	Exceptions: the concept, the mechanism, and the language construct
Nov 19	Lecture 13	Java Generics
Nov 26	Lecture 14	Java lambdas & function programming support
Dec 7	Final examination	