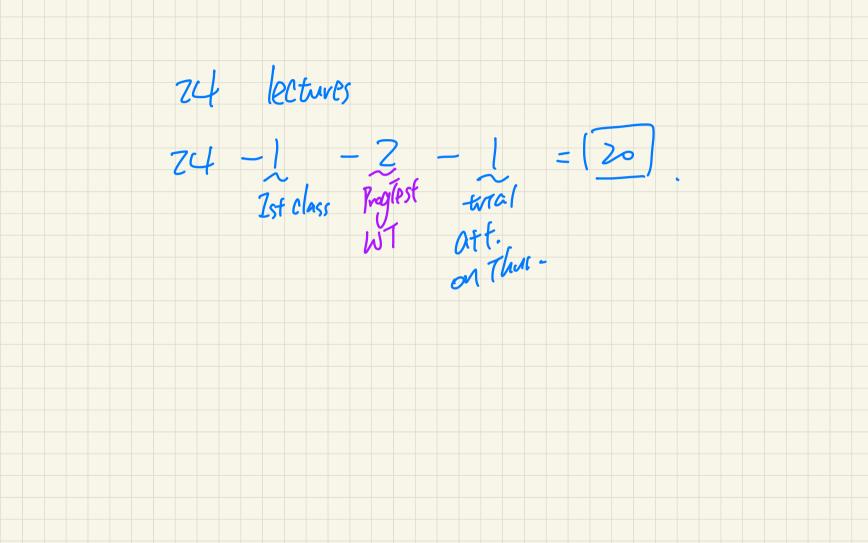
## **Lecture 1 - May 6**

**Syllabus & Overview of Compilation** 

Syllabus Semantic Domain

Course Learning Outcomes (CLOs)
Upon completion of the course, students are expected to be able to:
CLO1 Compare and contrast General-Purpose Languages (GPLs) and Domain-Specific Languages (DSLs). > SOL (mass stough & guages).
CLO2 Apply the theoretical understanding of, and use the relevant tools to generate, a lexical scanner.
Apply the theoretical understanding of, and use the relevant tools to generate, a grammatical parser.
CLO4 Construct an abstract syntax tree & perform semantic operations on it. Tastractors
CLO5 Communicate the design and implementation of a DSL and its associated tools.
Langiller NOs (regular languages)  (abstract trees)
scanning tolers parsing ast
1. Lecturs: theories. 2. AZ: Proj.: auto-generated.



Semantic Vomain

Ly specific meaning

Ly vocabulary Object - O violation Java-to-Jac. La classes, objects, atrosing, polymorphism, objects also SVZ relational database Compiler. tolls SVZ 4 entitres, tables, PKs, Tks, queies miche predicate logic (lol9/1960)

(free) vors, (dummy) variable,  $\forall$ ,  $\exists$ ,  $\uparrow$