

CE4337 - Organization of Programming Languages

[CE 4337](#) Organization of Programming Languages (3 semester credit hours) Principles of design and implementation of contemporary programming languages. Formal description including specification of syntax and semantics of programming languages. Language definition structures including binding, scoping, data types, control structures, parameter passing, abstraction mechanism, and run-time considerations. Design issues of imperative languages, object-oriented languages, functional languages and logic languages. Design, implement, and debug programs in various programming language paradigms. Prerequisites: ([CE 2336](#) or [CS 2336](#) or [TE 2336](#)) with a grade of C or better or [CS 3333](#)) and ([CE 2305](#) or [CS 2305](#) or [TE 2305](#)) with a grade of C or better and ([CS 3340](#) or [SE 3340](#) or [TE 3340](#) or [CE 4304](#) or [EE 4304](#)). (Same as [CS 4337](#)) (3-0) S