



# Programming in Lisp

## CSE 4254

**Credit Hours:**

1.00

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**Course Levels:**

Undergraduate (1000-5000 level)

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**Course Components:**

Lecture

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**Course Description:**

Lisp programming for students well-versed in programming with another language.

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**Prerequisites and Co-requisites:**

Prereq: 2122, 2123, or 2231; and 2321; and enrollment in CSE, CIS, ECE, Engr Physics, or Data Analytics major, or CIS minor.

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**Course Goals / Objectives:**

- Be competent with basic components of Common Lisp, such as s-expressions, data structures, and program flow
  - Be familiar with the Lisp family of programming languages, with particular emphasis on ANSI Common Lisp
  - Be familiar with the Lisp top-level and debugger
  - Be exposed to the functional programming paradigm
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**Course Topics:**

- Data structures
  - Program control and structure
  - Functions
  - I/O and symbols
  - Numbers and macros
  - Advanced topics, style, tricks, and review
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**Designation:**

Elective