

# CIS\*2520: Data Structures

**Skills and knowledge students should have prior to beginning the course:**

- CIS\*2500: Intermediate Programming.
- CIS\*1910 or ENGG1500 Proof techniques, Set theory, and functions.
- Elementary Algebra, including logarithmic functions, exponents, etc.

**This course is a study of basic data structures, such as**

- linked lists,
- stacks,
- queues,
- trees, and
- tables.

**Course Topics:**

1. Abstract data types,
2. Sequential and linked representations, and
3. An introduction to algorithm analysis;
4. Various traversal, search,
5. Insertion,
6. Removal, and
7. Sorting algorithms.

**Course Format:**

- Lecture format: Lectures in class, with reinforcement in formal pre-prepared labs.

**Tentative Method of evaluation:**

Number of Assignments:	6
Number of Graded Labs:	2
Formal Midterms:	2
Final Exam?	Yes