Mathematically sophisticated treatment of the design and analysis of algorithms and the theory of NP completeness. Algorithmic paradigms including greedy algorithms, divide and conquer, dynamic programming, network flow, approximation algorithms, and randomized algorithms. Problems drawn from the social sciences, Data Science, Computer Science, and engineering. For students with a flair for proofs and problem solving. Either CPSC 365 or CPSC 366 may be taken for credit.

Prerequisites: MATH 244 and CPSC 223.

[also CPSC366]

**Semester offered:** Spring  
**Undergrad Course Category:** Macroeconomics  
Methodology  
**Course Description:** Course Description

**Source URL:** [https://economics.yale.edu/undergraduate/courses/econ-366b-intensive-algorithms](https://economics.yale.edu/undergraduate/courses/econ-366b-intensive-algorithms)