Nebraska Wesleyan University

CMPSC 3000 Formal Languages and Automata

Catalog

2014-2015

Course Description

An overview of formal models of computation and complexity classes. Topics include formal languages (finite automata, regular expressions, push-down automata, context-free grammars, and Turing machines), Church's thesis, computability, non-determinism, and NP-completeness. Same as MATH 3000 Formal Languages and Automata.
Prerequisite(s): Grade of "C" or better in either CMPSC 1500 Program Design or MATH 2200 Introduction to Higher Mathematics and junior standing.

Course Hours

3 hours

Departments

1. Physics, Astronomy, and Computer Science