

Visualizing UW Prerequisite Course Sequences

CSE 512: Final Project

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Unclear prerequisite info in course catalog

- Course catalog only shows latest prerequisite requirement, not all coursework required
- Degree planning information or course sequences only available on departmental websites.
- **Solution:** visualize course sequences with trees!

CSE 373 Data Structures and Algorithms (3)

Fundamental algorithms and data structures for implementation. Techniques for solving problems by programming.

Prerequisite: CSE 143

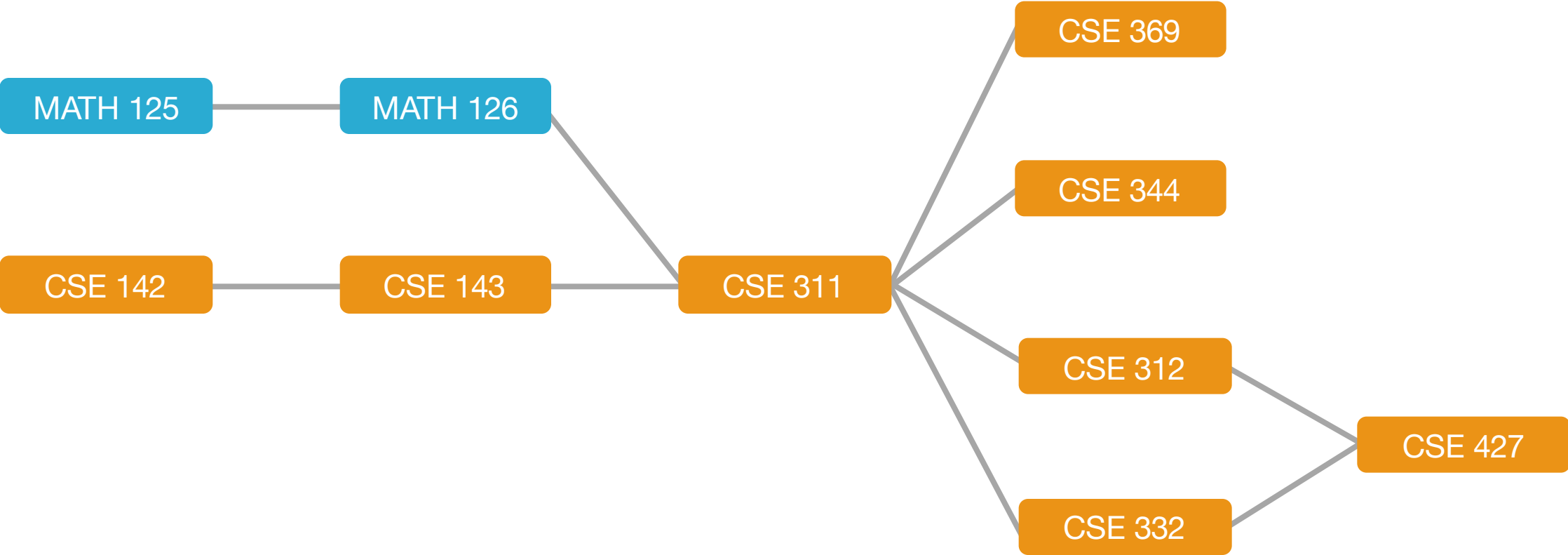
CSE 373, an elective course, lists CSE 143 as the only prerequisite. However, CSE 143 requires CSE 142 as a prerequisite.

Therefore, the prerequisites for CSE 373 are actually CSE 143 and CSE 142.

Anticipated storyboard

View sequence for:

CSE 311



Relevant prior work

UW Course Search

Department: cse
Course Number: 373 to
Num. Credits: Any to Any
Rate My Professor Overall: to
Rate My Professor Clarity: to
Rate My Professor Easiness: to
Credit Types: VLPA I&S W C DIV NW QSR

Search

Course	Time	SLN	Professor	Overall	Clarity	Easiness
CSE 373 A: Data Struc/Algorith 3 credits	MWF 230-320	13103	Tanimoto, Steven	1.8	1.8	2.3
CSE 390 H: Special Topics Cse 1 credits	to be arranged	13106				
CSE 391 A: Software Tools 1 credits	T 130-220	22834	Anderson, Ruth	3.9	3.7	2.7
CSE 401 A: Int Compiler Constr 4 credits	MWF 1230-120	22829	Bodik, Rastislav			
CSE 403 A: Software Engineering 4 credits	MWF 1030-1120	22831	Torlak, Emina			
CSE 413 A: Langs & Compilers 3 credits	MWF 130-220	13112	Perkins, John			
CSE 421 A: Intro To Algorithms 3 credits	MWF 130-220	13113	Anderson, Richard			
CSE 427 A: Comp Biology 3 credits	TTh 1030-1150	13114	Ruzzo, Walter	4.8	4.9	2.4

UW Course Search
Brice Hulse, 2016

Course Info Tool

Please enter a department code (CSE, INFO, MATH, ENGL, etc)

CSE Search for Department CSE 373 Select Course

CSE 373 Data Structures and Algorithms (3)
Fundamental algorithms and data structures for implementation. Techniques for solving problems by programming. Linked lists, stacks, queues, directed graphs. Trees: representations, traversals. Searching (hashing, binary search trees, multiway trees). Garbage collection, memory management. Internal and external sorting. Intended for non-majors. Not open for credit to students who have completed CSE 332.

Prerequisites:

CSE 143 Computer Programming II (5) NW, QSR
Continuation of CSE 142. Concepts of data abstraction and encapsulation including stacks, queues, linked lists, binary trees, recursion, instruction to complexity and use of predefined collection classes.

Is A Prerequisite For:

CSE 410 Computer Systems (3)
Structure and components of hardware and software systems. Machine organization, including central processor and input-output architectures; assembly language programming; operating systems, including process, storage, and file management. Intended for non-majors. No credit to students who have completed CSE 351 or CSE 451.

Course Focus
iSchool's Course Sector, 2015

Questions/Issues we are addressing

- How do we handle “soft prerequisites” in course description (*i.e.*: “by permission of instructor”)?
- What’s the best tool for writing web scrapers?
- What’s the best data schema for trees and networks? Two column CSV or JSON?