

*Computer Science*

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# Preregistration Meeting

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Dr. Dawn Lawrie

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# Overview

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- ❖ Educational Objectives
- ❖ Changes to the CS Major and Minor
- ❖ Course Offerings Next Year
- ❖ Future electives
- ❖ Clubs for CS Students

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# Program Educational Objectives

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To educate the next generation of computer professionals and academics who will

1. Embody the best ideals of a liberal Jesuit education as knowledgeable, caring, ethical, well-spoken men and women with critical and reasoned judgment.
2. Practice computer science and software engineering, understand the fundamental principles of computer science, and continue to develop their technical competencies.
3. Pursue advanced education, research and development, and other creative efforts in science and technology.
4. Take on leadership roles in industry, academics and the community.



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# Student Learning Outcomes

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1. Be proficient in computer languages, operating systems, and hardware.
2. Be able to design high quality solutions to problems using today's technology based on well-established principles of software engineering process, understand how to participate effectively as a member of a team, and be able to evaluate those solutions by rigorous means.
3. Understand well the fundamental principles of computer science theory.
4. Be effective at written and oral communication, able to read and write technical papers and documentation and present results.
5. Be knowledgeable of general ethical principles as well as the ethical codes of the computer science discipline and be knowledgeable of the social context of computing.

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# Motivation for Change

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- ❖ Computer Science is a rapidly evolving field
- ❖ Refocus each of the introductory courses
- ❖ Desired greater flexibility in course sequencing

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# Changes to the Major/Minor

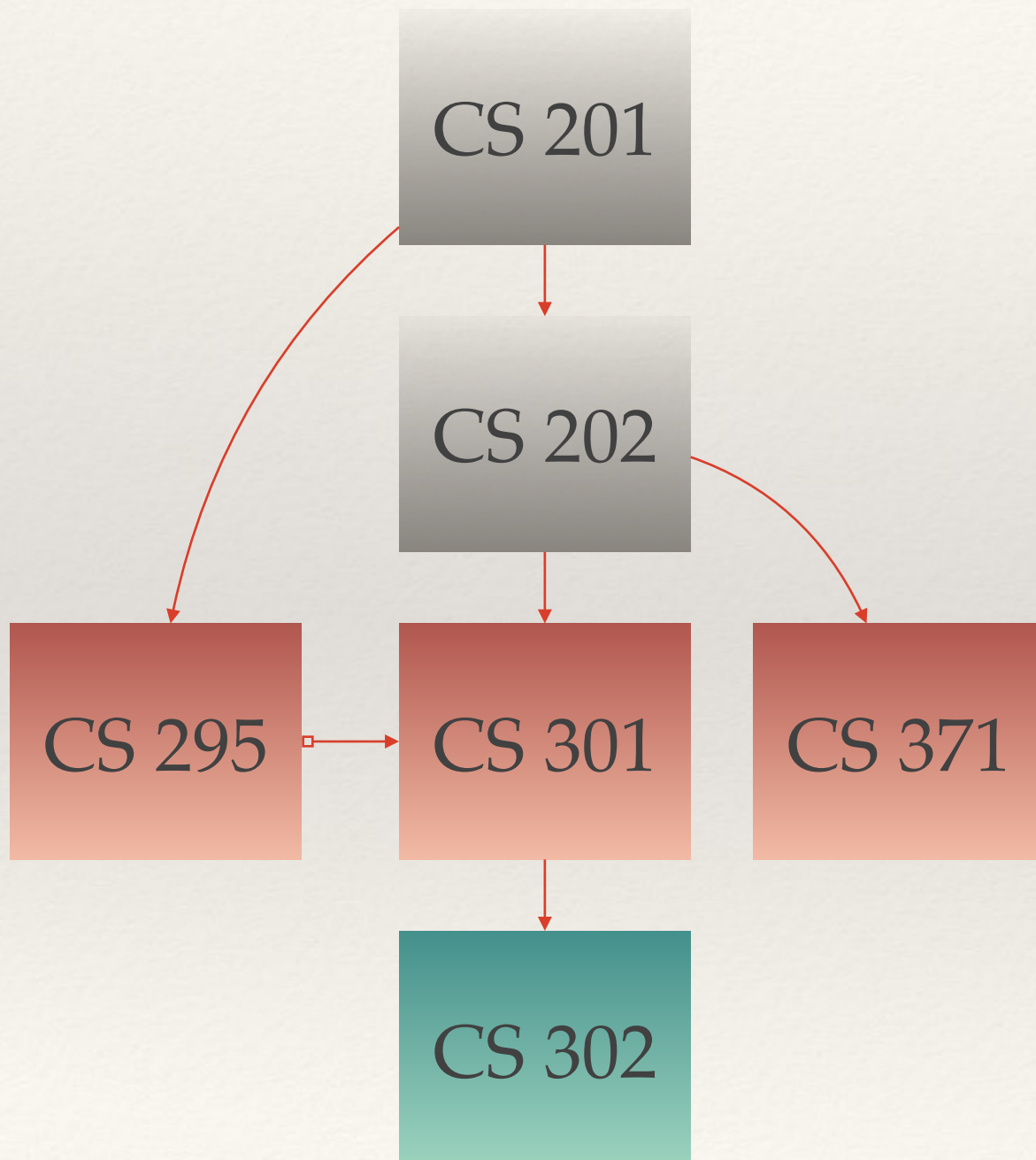
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- ❖ New introductory sequence
  - ❖ CS201 - Computer Science I
  - ❖ CS212 – Object Oriented Data Structures
  - ❖ CS312 – Object Oriented Software Design
  - ❖ CS366 – Introduction to Computer Systems

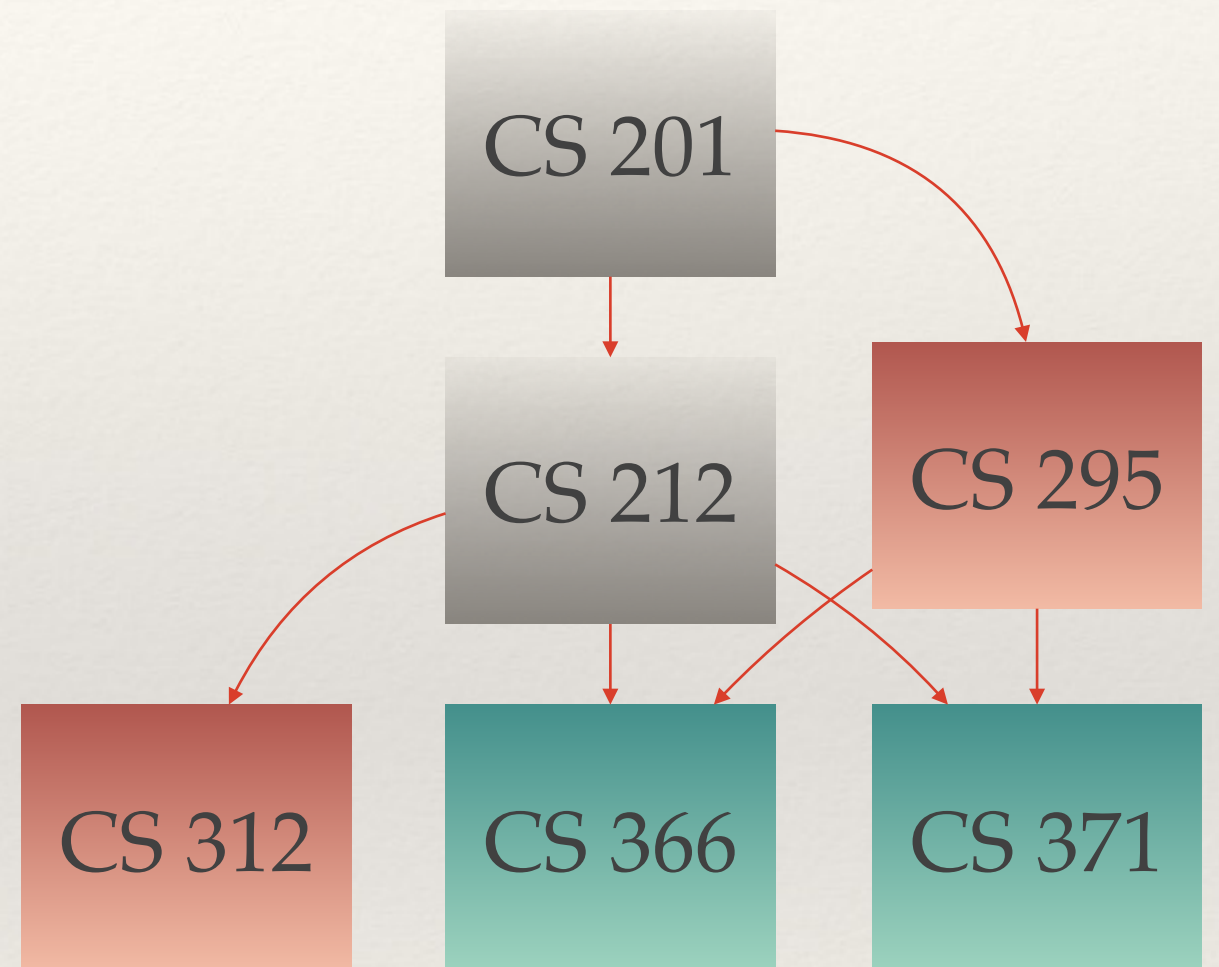


# Course Sequencing

Old



New



Both  
Semesters

Fall  
Semester

Spring  
Semester

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# What to take next year?

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Enrolled in	Sign up for in Fall	Sign up for in Spring
CS 201 F15 or S16	CS212 and CS295	CS 366 and CS 371
CS 202 S16	CS 312 and CS 295	CS 366 and CS 371
CS 202 F15 or earlier	CS 301, CS 295, and CS 371	CS 302 and elective



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# Upper Level Courses 16-17

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CS 451

*Programming  
Languages*

CS 485

*Databases*

CS 482

*Software  
Engineering*

CS 457

*Networks*

CS 462

*Algorithms*

CS 484

*Artificial  
Intelligence*

CS 466

*Operating  
Systems*

CS 496

*Senior Projects*

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# Upper Level Courses 16-17

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CS 451  
*Programming  
Languages*

CS 485  
*Databases*

CS 482  
*Software  
Engineering*

CS 457  
*Networks*

CS 484  
*Artificial  
Intelligence*

CS 496  
*Senior Projects*

CS 462  
*Algorithms*

CS 466  
*Operating  
Systems*

CS 212

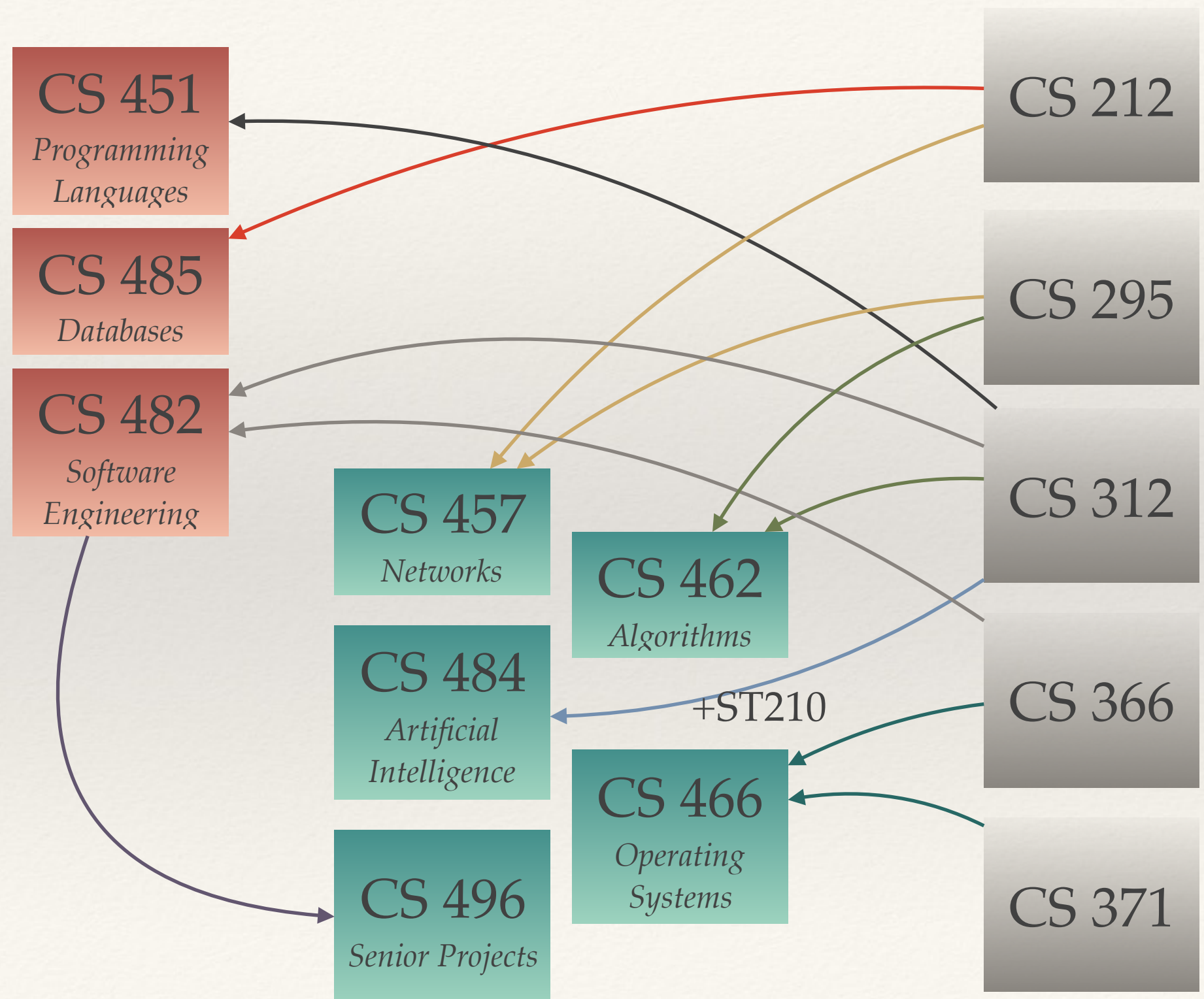
CS 295

CS 312

CS 366

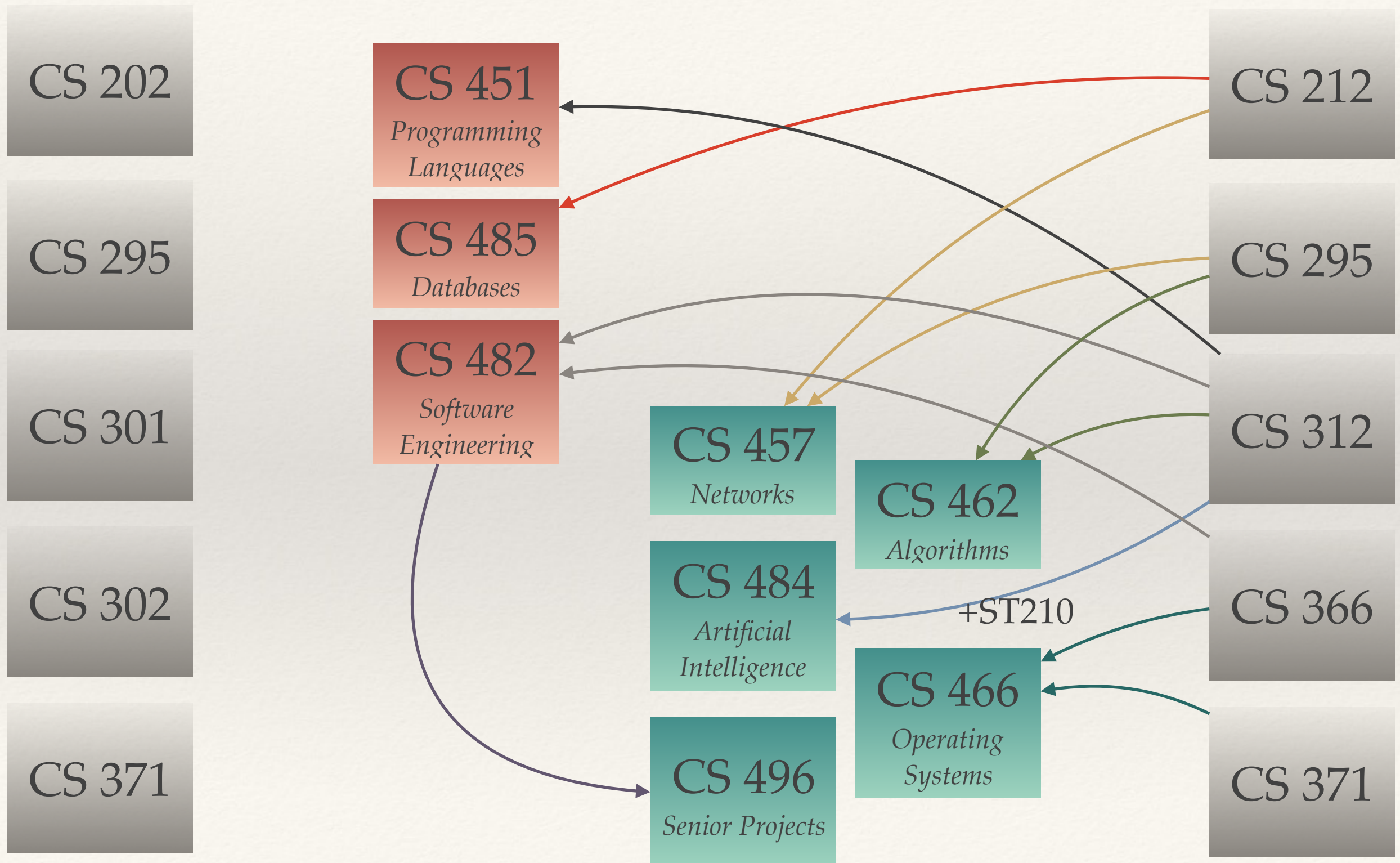
CS 371

# Upper Level Courses 16-17

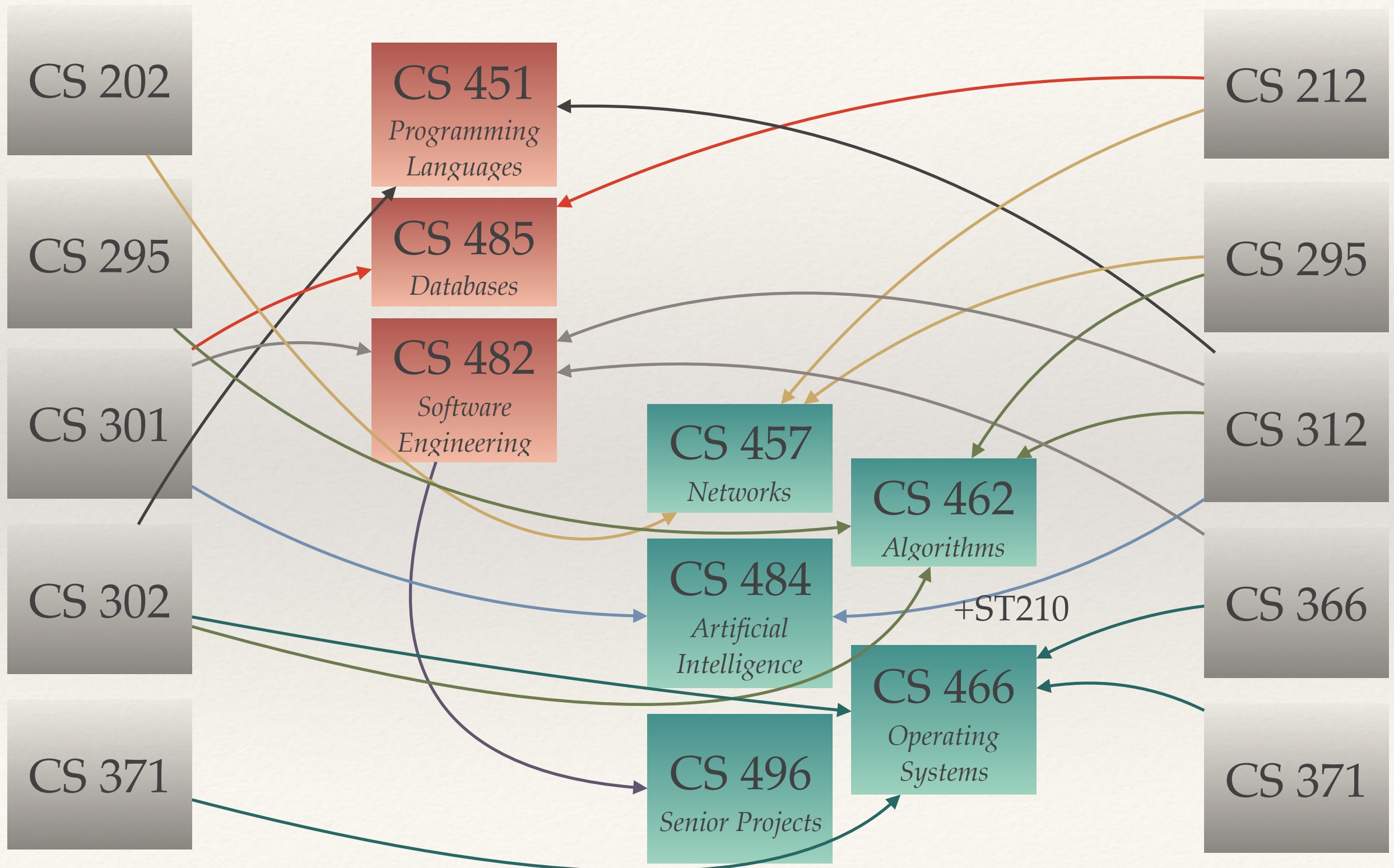




# Upper Level Courses 16-17



# Upper Level Courses 16-17





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# Upper Level Courses 17-18

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CS 455

*Graphical User  
Interfaces*

CS 466

*Operating  
Systems*

CS 478

*Theory of  
Computation*

CS 482

*Software  
Engineering*

CS 456

*Web  
Programming*

CS 462

*Algorithms*

CS 451

*Programming  
Languages*

CS 486

*Graphics*

CS 496

*Senior Projects*



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# Upper Level Courses 17-18

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CS 455

*Graphical User  
Interfaces*

CS 466

*Operating  
Systems*

CS 212

CS 478

*Theory of  
Computation*

CS 295

CS 482

*Software  
Engineering*

CS 456

*Web  
Programming*

CS 312

CS 462

*Algorithms*

CS 366

CS 451

*Programming  
Languages*

CS 486

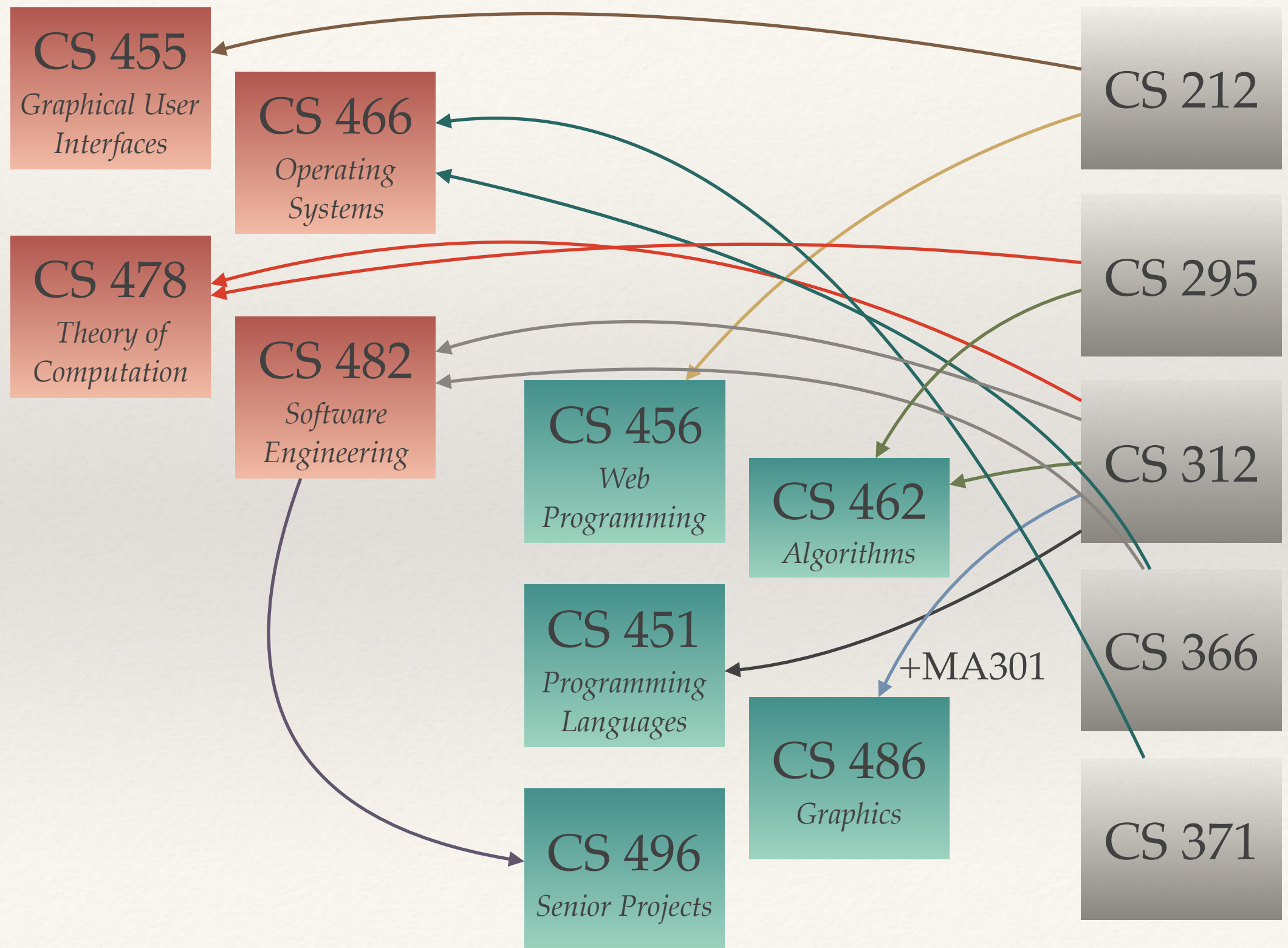
*Graphics*

CS 371

CS 496

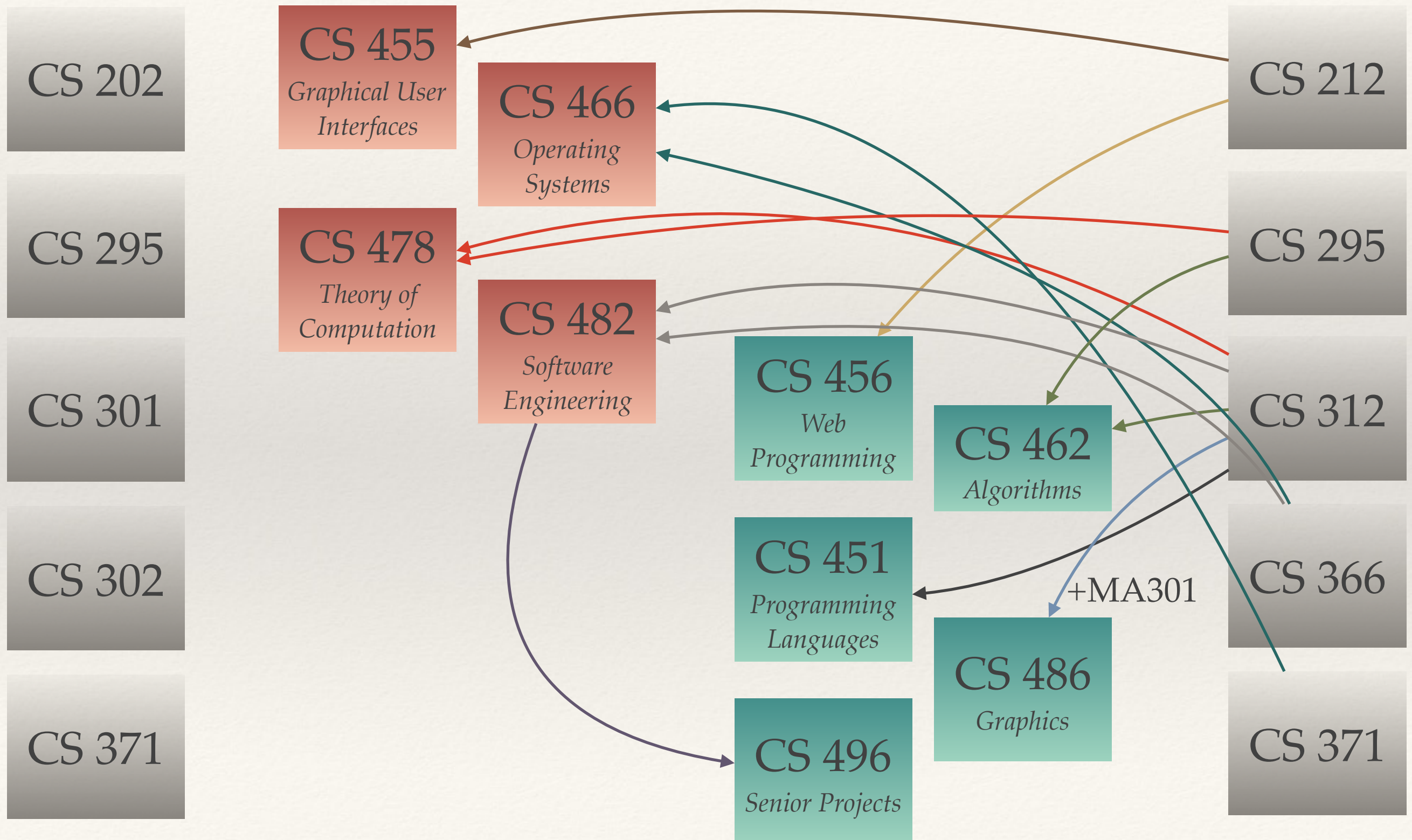
*Senior Projects*

# Upper Level Courses 17-18



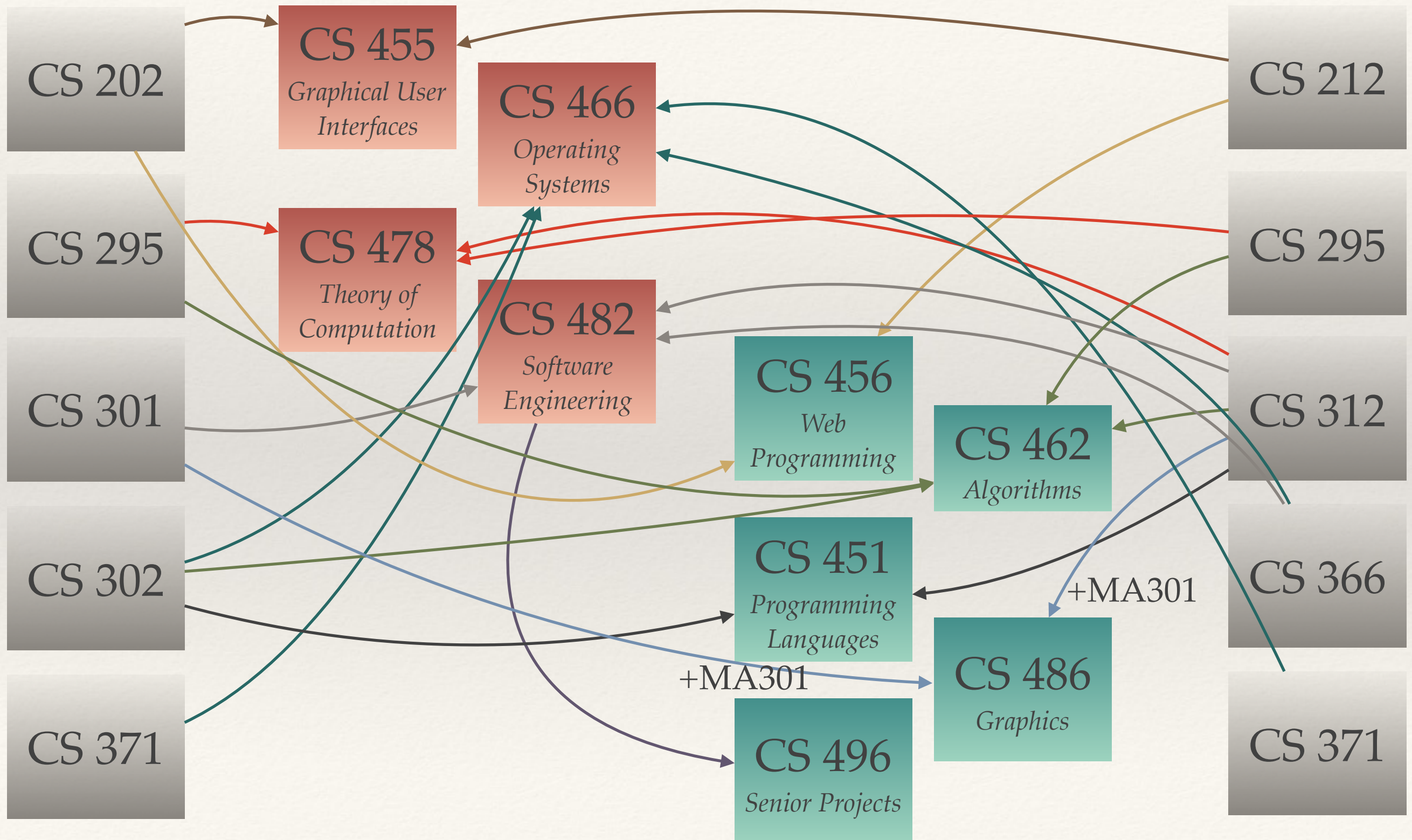


# Upper Level Courses 17-18





# Upper Level Courses 17-18



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# Clubs

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- ❖ ACM (Association for Computing Machinery)
- ❖ Anime Hounds
- ❖ Greyhound Gamers
- ❖ Robotics Club
- ❖ Society of Women Engineers
- ❖ Tech Startup / Development Club
- ❖ UPE (CS Honors Society - *Invitation Only*)
- ❖ Video Game Design Club



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# Back to School Night

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What: Alumni share experiences their experiences

When: March 21 @ 6 PM

Where: DS121

Pizza, drinks, and snacks

