

**Fall 2018**  
**CS 5300 Advanced Algorithm Design and Analysis**  
**Tu/Th 4:00 - 5:15 p.m.**  
**Room 8/348**

Instructor Dr. G. S. Young  
 - Office Bldg. 8, Room 14  
 - Office Hours

Tu	2:20 – 2:50 p.m.	5:15 – 6:15 p.m. (online by email)
Th	2:20 – 3:50 p.m.	5:15 – 6:15 p.m. (online by email)
		Or by appointment

- Phone 909-869-4413  
 - Email [gsyoung@cpp.edu](mailto:gsyoung@cpp.edu)

Web Page <https://www.cpp.edu/~gsyoung/CS5300/18F/cs5300.htm>

Course <http://catalog.csupomona.edu/index.php>  
 Description Prerequisite: CS331 or consent of instructor.

Textbook N/A

References Computer Algorithms by Horowitz, Sahni and Rajasekaran,  
 W. H. Freeman, 1998 (Pseudocode version)  
 ISBN 0-7167-8316-9.

Algorithmics: Theory & Practice by Brassard and Bratley,  
 Prentice Hall, 1988

Computers and Intractability: A Guide to the Theory of NP-Completeness  
 by Garey and Johnson, W.H. Freeman and Company, 1979

Periodicals  
 Journal of Algorithms  
 Journal of the ACM  
 SIAM Journal on Computing  
 Journal of Parallel and Distributed Computing  
 Computer Journal  
 Information Processing Letters  
 Algorithmica  
 Communications of the ACM  
 IEEE Transactions on Information Theory  
 IEEE Transactions on Computers  
 ACM Symposium on Parallel Algorithms and Architectures  
 ACM Computing Surveys  
 Proceedings of STOC, FOCS (Symposium on Theory of Computing,  
 Foundations of Computer Science)

Email &  
Intranet  
Group

All students should have a Cal Poly Pomona intranet account. You should already have received your username and password from the University. By having an Intranet account, you will automatically become part of intranet group cs530001. This allows for emailing to the entire group. I expect you to check your email regularly. Another benefit of being a member of the cs530001 group is that you can determine the email address of every other student in the class. Thus, if you miss a class, you should have no trouble contacting another student to learn what happened.

If you send email to me, be sure to include your name, the course number and the section number.

You will probably receive faster response to your questions if you email to the entire class rather than just to me. Chances are that a fellow student has encountered and solved the problem you're reporting, and they'll be able to set you on the right track before I even get to read your email. I will often redirect your email to the group for solution.

Grading

Homework Assignments .....	15%
Exam and Take-Home Exam .....	35%
Term Project/Paper Proposal .....	5%
Term Project/Paper Report .....	20%
Participation (Peer Evaluation, Discussion) .....	5%
Presentation .....	20%

A: 90-100%, B: 80-89%, C: 70-79%, D: 60-69%, F: 59% and below  
+ and – grades will be assigned within the same grade,  
e.g. B+ for upper 80's, B for mid 80's, and B- for lower 80's.

**Homework Policy** Homework assignments must have a cover page that includes your name, your student ID number, total number of pages including the cover page, and homework assignment number. Put your name on the upper right hand corner on each page except the cover page and staple them together.

Homework assignments are due at the beginning of class – place them on the instructor's desk when you arrive. No late homework. There are two homework assignments.

It is the student's responsibility to pick up his/her assignments/exams, if not claimed on the return day.

**Term Project/Paper** Students will form teams (up to 3 students). Each team is required to work on a term project/paper and write a term project/paper report. Each team is also required to give an in-class presentation at the end of the quarter.

**Academic Integrity** I encourage discussion among students, but I expect each student to hand in original work. You are responsible for doing your own work and for insuring that your work is protected from copying. The University's policy on Academic Integrity, as stated in the catalog, will be enforced.

**Exam Policy** No questions will be answered during exams. This policy avoids distracting others, obstructing vigilance, and giving unfair advantage. If a question contains an ambiguity or a misprint, then say so in your answer, providing the answer to a reasonable interpretation of the question; give your assumptions. Before the exams, I will discuss - in class - what will be covered on the exams. I will answer questions about exam coverage only during a class session. There will be no make-ups or rescheduling of exams.

**Absence** Note that regular attendance is recommended. In the event of an absence, it is the student's responsibility to learn of any material missed. Lectures and demonstrations will not be repeated during office hours.