Welcome to CPSC 320: the number one course to beat brute force!

We'll be using this Canvas page to host course materials (located under **Modules (https://canvas.ubc.ca/courses/153809/modules)** ).

We will also be using **Piazza (https://piazza.com/class/m0ctg610tyw5jh/)** for discussion and Gradescope for grading of quizzes, assignments, and exams. We will email you invitations to the course Gradescope page in the third week of the term.

Here is a tentative schedule for the term, subject to change as needed:

| Week | Coverage topic(s) | Readings | Tests/Dea |
|---|---|---|---|
| 09/01-09/07 | Intro; stable matching | **stable-matching.pdf (https://canvas.ubc.ca/courses/153809/files/34034269)** | |
| 09/08-09/14 | SMP; reductions | KT chapter 2 | |
| 09/15-09/21 | Asymptotic analysis | KT 3.1-3.6 | A1 due 09 |
| 09/22-09/28 | Graphs | KT 4.1-4.2 | |
| 09/29-10/05 | Greedy algorithms | KT 4.4-4.5 | A2 due 10 |
| 10/06-10/12 | Greedy algorithms | KT 5.1-5.3 + **Master Theorem (Wikipedia) (https://en.wikipedia.org/wiki/Master_theorem_(analysis_of_algorithms))** | MT1 in cla 10/09 |
| 10/13-10/19 | Divide and conquer | KT 5.4 | |
| 10/20-10/26 | Divide and conquer | KT 6.1-6.3 | A3 due 10 |
| 10/27-11/02 | Dynamic programming | KT 6.4, 6.6 | |
| 11/03-11/09 | Dynamic programming | | MT2 in cla 11/06 |
| 11/10-11/16 | Dynamic programming | KT 8.1, 8.3, 8.4, + quick skim of KT 8.10 | A4 due 11 |

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| 11/17-11/23 | Dynamic programming; NP-completeness | | |
| 11/24-11/30 | NP-completeness | KT 8.5, 8.10 | |
| 12/01-12/07 | NP-completeness | | A5 due 12 |