## Honours in Combinatorics \& Optimization Checklist (updated May 2023)

Contact David Jao (coundergrad.officer@uwaterloo.ca) for further assistance.
Notational conventions: brackets indicate choice lists; i.e., " $1[34] 5$ " is a short-hand for " 135 or 145 "; $\square$ indicate requirements.
Disclaimer: In case of discrepancies between the checklist and the University Calendar located at:
http://ugradcalendar.uwaterloo.ca/page/MATH-Combinatorics-and-Optimization2
The University Calendar will always take precedence. This checklist does not apply to students in Double Degree plans.
You may replace CS courses with the corresponding courses available to CS Honours Computer Science major students.


## ${ }^{1}$ Math courses:

- Courses/Cross-listed courses with prefixes: ACTSC, AMATH, CO, CS, MATBUS, MATH, PMATH, or STAT
- Additionally, any course cross-listed with one of these subject codes is considered a MATH course.


## ${ }^{2}$ Non-math courses:

- Courses with the prefix COMM, MTHEL, and those courses offered by other faculties (excluding courses cross-listed with math courses and courses listed above as math courses)
- COOP and PD courses do not count as math or non-math courses
${ }^{3}$ Excluding PD courses and co-op work-term courses.
${ }^{4}$ English writing skills requires one of:
- At least $60 \%$ in one of the following courses (prior to 2A term): COMMST [100, 223], EMLS [101R, 102R], EMLS/ENGL 129R, ENGL 109
- One of the following courses: COMMST [225, 227, 228], EMLS [103R, 104R, 110R], ENGL [101B, 108B, 108D, 119, 208B, 209, 210E, 210F], ENGL 378/MTHEL 300
${ }^{5}$ If CO 255 is taken, this requirement can be satisfied by taking one of CO $450,452,454,456,459,463,466$, or 471 .
${ }^{6}$ These courses are only open to CS majors
${ }^{7} \mathrm{CS} 467$ is cross-listed with CO 481 and therefore does not count for this requirement.

