

2012-2013 BMath (CS/DH) Checklist

Required Courses	Additional Constraints
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> 7.5 CS Units <input type="checkbox"/> CS 115 or 135 or 145 <input type="checkbox"/> CS 136 or 146 <input type="checkbox"/> CS 240 <input type="checkbox"/> CS 241 <input type="checkbox"/> CS 245 <input type="checkbox"/> CS 246 <input type="checkbox"/> ECE 222 <input type="checkbox"/> CS 341 <input type="checkbox"/> CS 350 <input type="checkbox"/> CS 360 or 365 <input type="checkbox"/> CS 370 or 371 <input type="checkbox"/> CS 340-398; 440-489 <input type="checkbox"/> CS 440-489 <input type="checkbox"/> CS 440-489 <input type="checkbox"/> CS 440-497 or CS 499T or CS 6xx or CS 7xx or STAT 440 or CO 487 <input type="checkbox"/> 1.5 Elective Units <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1.5 Additional Math Units¹ <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </div> <div style="width: 48%;"> <input type="checkbox"/> 4.5 Math units <input type="checkbox"/> Math 1[34]5 <input type="checkbox"/> Math 1[034]6 <input type="checkbox"/> Math 1[234]7 <input type="checkbox"/> Math 1[234]8 <input type="checkbox"/> Math 2[34]5 <input type="checkbox"/> Math 2[34]7 <input type="checkbox"/> Math 2[34]9 <input type="checkbox"/> Stat 2[34]0 <input type="checkbox"/> Stat 2[34]1 <input type="checkbox"/> 5.0 Non-math Units <input type="checkbox"/> GENE 123 or MTE 120 <input type="checkbox"/> ECE 124 <input type="checkbox"/> ECE 224 or ECE 325 <input type="checkbox"/> ECE 327 <input type="checkbox"/> ECE 423 <input type="checkbox"/> (Rec: PHYS 121) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> One of: <input type="checkbox"/> CS 450 <input type="checkbox"/> ECE 429² </div> <div style="width: 48%;"> <input type="checkbox"/> Two of: <input type="checkbox"/> CS 452 <input type="checkbox"/> CS 454 <input type="checkbox"/> CS 456 <input type="checkbox"/> CS 457 </div> </div> <input type="checkbox"/> Non-math units that satisfy one of: <input type="checkbox"/> A minor, joint or full Honours plan from outside of the Mathematics Faculty <input type="checkbox"/> Elective breadth and depth requirement ³ : <input type="checkbox"/> All of (breadth): <input type="checkbox"/> 1.0 units from humanities <input type="checkbox"/> 1.0 units from social sciences <input type="checkbox"/> 0.5 units from pure science <input type="checkbox"/> 0.5 units from pure and applied science <input type="checkbox"/> The depth requirement is automatically met by the required ECE courses. <input type="checkbox"/> An alternate plan approved by a CS Advisor <input type="checkbox"/> Eight terms enrolled in at least three courses totaling 1.5 units <input type="checkbox"/> No more than 3.0 units of excluded courses <input type="checkbox"/> CS Major Average of 60% or higher <input type="checkbox"/> Cumulative Average of 60% or higher <input type="checkbox"/> English Writing Skills <input type="checkbox"/> Coop requirements met, if applicable, including a minimum of five PD courses.

Disclaimer: This checklist is a handy tool but is not a substitute for the official degree regulations. If there is a question of interpretation or a discrepancy, the University Calendar always takes precedence.

¹ Three additional courses labeled ACTSC, AMATH, CO, CM, PMATH, STAT, excluding the following:

- Courses with requisites normally excluding Honours CS students
- Courses cross-listed with a CS course
- Courses explicitly listed in CS major plans as alternatives to CS courses
- Readings and Topics courses
- ACTSC 221, CO 352, CO 353/CM 441, CO 380, CO 480

² One of ECE 427 or 429 may be used to satisfy a CS 440-497 requirement. Students taking ECE 429 instead of CS 450 will count this as 0.5 math units in the range CS440-48 and not 0.5 non-math units.

³ See <http://www.cs.uwaterloo.ca/current/programs/require/2012-2013/depthAndBreadth.shtml>