

## 2005-2006 BMath(Computer Science) Checklist

Rules for the BMath(CS) degree changed with the introduction of the 2003-2004 calendar. This is a checklist for the new rules. Under "Required Courses" fill in forty unique courses (20 units) that you have passed but not excluded. Then verify that those courses also satisfy the "Additional Constraints".

| Required Courses  | Additional Constraints  |                              |   |                              |    |       |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |  |                              |  |   |                              |  |                              |  |  |                              |  |                              |  |  |                              |  |                              |  |  |  |
|---|---|------------------------------|---|------------------------------|----|-------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|--|------------------------------|------------------------------|------------------------------|------------------------------|--|------------------------------|------------------------------|------------------------------|------------------------------|--|------------------------------|------------------------------|--|------------------------------|--|---|------------------------------|--|------------------------------|--|--|------------------------------|--|------------------------------|--|--|------------------------------|--|------------------------------|--|--|--|
| <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> 7.5 CS Units<br/> <input type="checkbox"/> CS 125, 133, 135, 3xx or 4xx<br/> <input type="checkbox"/> CS 134 or 136<br/> <input type="checkbox"/> CS 240<br/> <input type="checkbox"/> CS 241<br/> <input type="checkbox"/> CS 245<br/> <input type="checkbox"/> CS 246<br/> <input type="checkbox"/> CS 251<br/> <input type="checkbox"/> CS 341<br/> <input type="checkbox"/> CS 350<br/> <input type="checkbox"/> CS 360 or 365<br/> <input type="checkbox"/> CS 370 or 371<br/> <input type="checkbox"/> CS 340-398<sup>1</sup>; 440-498<sup>1</sup><br/> <input type="checkbox"/> CS 440-498<sup>1</sup><br/> <input type="checkbox"/> CS 440-498<sup>1</sup><br/> <input type="checkbox"/> CS 440-498<sup>1</sup> or CS 6xx or CS 7xx or STAT 440 or CO 487<br/><br/> <input type="checkbox"/> 1.5 Elective Units<br/> <input type="checkbox"/><br/> <input type="checkbox"/><br/> <input type="checkbox"/><br/><br/> <input type="checkbox"/> 5.0 Non-math Units<br/> <input type="checkbox"/><br/> <input type="checkbox"/><br/> <input type="checkbox"/><br/> <input type="checkbox"/><br/> <input type="checkbox"/> </div> <div style="width: 48%;"> <input type="checkbox"/> 4.5 Math units<br/> <input type="checkbox"/> Math 1[34]5<br/> <input type="checkbox"/> Math 1[34]6<br/> <input type="checkbox"/> Math 1[34]7<br/> <input type="checkbox"/> Math 1[34]8<br/> <input type="checkbox"/> Math 2[34]5<br/> <input type="checkbox"/> Math 2[34]7<br/> <input type="checkbox"/> Math 2[34]9<br/> <input type="checkbox"/> Stat 2[34]0<br/> <input type="checkbox"/> Stat 2[34]1<br/><br/> <input type="checkbox"/> 1.5 Additional Math Units<br/> <input type="checkbox"/><br/> <input type="checkbox"/><br/> <input type="checkbox"/> </div> </div> | <input type="checkbox"/> Three of (additional math courses):<br><table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">ACTSCI</th> <th style="text-align: left;">AMATH</th> <th style="text-align: left;">STAT</th> <th style="text-align: left;">CO</th> <th style="text-align: left;">PMATH</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> 231</td> <td><input type="checkbox"/> 231</td> <td><input type="checkbox"/> 330</td> <td><input type="checkbox"/> 330</td> <td><input type="checkbox"/> 331</td> </tr> <tr> <td><input type="checkbox"/> 232</td> <td><input type="checkbox"/> 250</td> <td><input type="checkbox"/> 331</td> <td><input type="checkbox"/> 331</td> <td><input type="checkbox"/> 332</td> </tr> <tr> <td><input type="checkbox"/> 331</td> <td><input type="checkbox"/> 261</td> <td><input type="checkbox"/> 332</td> <td><input type="checkbox"/> 342</td> <td><input type="checkbox"/> 334</td> </tr> <tr> <td><input type="checkbox"/> 371</td> <td><input type="checkbox"/> 331</td> <td><input type="checkbox"/> 333</td> <td><input type="checkbox"/> 350</td> <td><input type="checkbox"/> 336</td> </tr> <tr> <td><input type="checkbox"/> 431</td> <td><input type="checkbox"/> 332</td> <td></td> <td><input type="checkbox"/> 351</td> <td><input type="checkbox"/> 345</td> </tr> <tr> <td><input type="checkbox"/> 432</td> <td><input type="checkbox"/> 333</td> <td></td> <td><input type="checkbox"/> 355</td> <td><input type="checkbox"/> 346</td> </tr> <tr> <td><input type="checkbox"/> 433</td> <td><input type="checkbox"/> 341</td> <td></td> <td><input type="checkbox"/> 367</td> <td><input type="checkbox"/> 351</td> </tr> <tr> <td></td> <td><input type="checkbox"/> 343</td> <td></td> <td><input type="checkbox"/> 430-487,<br/>excluding<br/>480</td> <td><input type="checkbox"/> 352</td> </tr> <tr> <td></td> <td><input type="checkbox"/> 351</td> <td></td> <td></td> <td><input type="checkbox"/> 354</td> </tr> <tr> <td></td> <td><input type="checkbox"/> 353</td> <td></td> <td></td> <td><input type="checkbox"/> 365</td> </tr> <tr> <td></td> <td><input type="checkbox"/> 373</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <input type="checkbox"/> Non-math units that satisfy one of:<br><input type="checkbox"/> A minor, joint or full Honours plan from outside of the Mathematics Faculty<br><input type="checkbox"/> Elective <a href="#">breadth and depth requirement</a> <sup>2</sup> :<br><input type="checkbox"/> All of (breadth):<br><input type="checkbox"/> 1.0 units from the humanities<br><input type="checkbox"/> 1.0 units from the social sciences<br><input type="checkbox"/> 0.5 units from the pure sciences<br><input type="checkbox"/> 0.5 units from the pure and applied sciences<br><input type="checkbox"/> One of (depth):<br><input type="checkbox"/> 1.5 units at the 3 <sup>rd</sup> year level or higher with the same prefix<br><input type="checkbox"/> 1.5 units with the same prefix forming a prerequisite chain of length three<br><input type="checkbox"/> An alternate plan approved by a CS Advisor<br><input type="checkbox"/> English Writing Skills<br><input type="checkbox"/> Coop requirements met, if applicable<br><input type="checkbox"/> Eight terms enrolled in at least three courses totaling 1.5 units<br><input type="checkbox"/> No more than 3.0 units of excluded courses and non-excluded courses failed prior to Fall 2004<br><input type="checkbox"/> CS Major Average of 60% or higher<br><input type="checkbox"/> Cumulative Average of 60% or higher | ACTSCI                       | AMATH   | STAT                         | CO | PMATH | <input type="checkbox"/> 231 | <input type="checkbox"/> 231 | <input type="checkbox"/> 330 | <input type="checkbox"/> 330 | <input type="checkbox"/> 331 | <input type="checkbox"/> 232 | <input type="checkbox"/> 250 | <input type="checkbox"/> 331 | <input type="checkbox"/> 331 | <input type="checkbox"/> 332 | <input type="checkbox"/> 331 | <input type="checkbox"/> 261 | <input type="checkbox"/> 332 | <input type="checkbox"/> 342 | <input type="checkbox"/> 334 | <input type="checkbox"/> 371 | <input type="checkbox"/> 331 | <input type="checkbox"/> 333 | <input type="checkbox"/> 350 | <input type="checkbox"/> 336 | <input type="checkbox"/> 431 | <input type="checkbox"/> 332 |  | <input type="checkbox"/> 351 | <input type="checkbox"/> 345 | <input type="checkbox"/> 432 | <input type="checkbox"/> 333 |  | <input type="checkbox"/> 355 | <input type="checkbox"/> 346 | <input type="checkbox"/> 433 | <input type="checkbox"/> 341 |  | <input type="checkbox"/> 367 | <input type="checkbox"/> 351 |  | <input type="checkbox"/> 343 |  | <input type="checkbox"/> 430-487,<br>excluding<br>480 | <input type="checkbox"/> 352 |  | <input type="checkbox"/> 351 |  |  | <input type="checkbox"/> 354 |  | <input type="checkbox"/> 353 |  |  | <input type="checkbox"/> 365 |  | <input type="checkbox"/> 373 |  |  |  |
| ACTSCI  | AMATH   | STAT                         | CO  | PMATH                        |    |       |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |  |                              |  |   |                              |  |                              |  |  |                              |  |                              |  |  |                              |  |                              |  |  |  |
| <input type="checkbox"/> 231  | <input type="checkbox"/> 231  | <input type="checkbox"/> 330 | <input type="checkbox"/> 330                          | <input type="checkbox"/> 331 |    |       |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |  |                              |  |   |                              |  |                              |  |  |                              |  |                              |  |  |                              |  |                              |  |  |  |
| <input type="checkbox"/> 232  | <input type="checkbox"/> 250  | <input type="checkbox"/> 331 | <input type="checkbox"/> 331                          | <input type="checkbox"/> 332 |    |       |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |  |                              |  |   |                              |  |                              |  |  |                              |  |                              |  |  |                              |  |                              |  |  |  |
| <input type="checkbox"/> 331  | <input type="checkbox"/> 261  | <input type="checkbox"/> 332 | <input type="checkbox"/> 342                          | <input type="checkbox"/> 334 |    |       |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |  |                              |  |   |                              |  |                              |  |  |                              |  |                              |  |  |                              |  |                              |  |  |  |
| <input type="checkbox"/> 371  | <input type="checkbox"/> 331  | <input type="checkbox"/> 333 | <input type="checkbox"/> 350                          | <input type="checkbox"/> 336 |    |       |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |  |                              |  |   |                              |  |                              |  |  |                              |  |                              |  |  |                              |  |                              |  |  |  |
| <input type="checkbox"/> 431  | <input type="checkbox"/> 332  |                              | <input type="checkbox"/> 351                          | <input type="checkbox"/> 345 |    |       |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |  |                              |  |   |                              |  |                              |  |  |                              |  |                              |  |  |                              |  |                              |  |  |  |
| <input type="checkbox"/> 432  | <input type="checkbox"/> 333  |                              | <input type="checkbox"/> 355                          | <input type="checkbox"/> 346 |    |       |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |  |                              |  |   |                              |  |                              |  |  |                              |  |                              |  |  |                              |  |                              |  |  |  |
| <input type="checkbox"/> 433  | <input type="checkbox"/> 341  |                              | <input type="checkbox"/> 367                          | <input type="checkbox"/> 351 |    |       |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |  |                              |  |   |                              |  |                              |  |  |                              |  |                              |  |  |                              |  |                              |  |  |  |
|   | <input type="checkbox"/> 343  |                              | <input type="checkbox"/> 430-487,<br>excluding<br>480 | <input type="checkbox"/> 352 |    |       |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |  |                              |  |   |                              |  |                              |  |  |                              |  |                              |  |  |                              |  |                              |  |  |  |
|   | <input type="checkbox"/> 351  |                              |   | <input type="checkbox"/> 354 |    |       |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |  |                              |  |   |                              |  |                              |  |  |                              |  |                              |  |  |                              |  |                              |  |  |  |
|   | <input type="checkbox"/> 353  |                              |   | <input type="checkbox"/> 365 |    |       |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |  |                              |  |   |                              |  |                              |  |  |                              |  |                              |  |  |                              |  |                              |  |  |  |
|   | <input type="checkbox"/> 373  |                              |   |                              |    |       |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |                              |                              |  |                              |                              |  |                              |  |   |                              |  |                              |  |  |                              |  |                              |  |  |                              |  |                              |  |  |  |

**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

<sup>1</sup> For the Fall 2006 and Winter 2007 terms, CS 348 can be taken to receive a credit in CS 448.

<sup>2</sup> See <http://www.cs.uwaterloo.ca/current/programs/require/2008-2009/depthAndBreadth.shtml>