NYU CS Breadth Requirements Form version: June, 2003

Student's name: _____ ID#: _____ date: _____

The purpose of this form is to help the student to collect all the information necessary to verify that the breadth requirements were completed. The text in italic is from the Ph.D. program requirements. The verification is done by the student's academic advisor, and the final approval is given by the DGS. The completed form, signed by the academic advisor and the DGS, must be submitted to the Graduate Program Coordinator. Please keep a copy for your records.

(1a) **Algorithms.** *Every student must receive a grade of A or A- on the final examination in the Honors Algorithms course. Students may take the final exam without being enrolled in the course.*

G22.3520 Honors Algorithms semester/year taken: _____ course grade: _____ exam grade: _____

exam retaken (dates/grades): _____

(1b) **Systems.** *This requirement can be satisfied in two ways. Either 1. the student receives an A or A- in an approved course in systems listed in the Appendix; 2. the student has received an A or A- in a similar PhD-level systems course at another university with standards comparable to NYU's. This determination will be made by the DGS. In Case 2, the student is required to work on a medium-size or larger software project at NYU This project can be part of coursework or the student's research. A brief report on the project must be accepted by the DGS.*
If the second option is used, please attach the documentation provided to DGS to evaluate the course, the software project report abd the DGS's approval for both (e-mail printouts are acceptable).

Course #, title and school : _____

semester/term taken: _____ instructor's name: _____ grade: _____

(1c) **Applications.** *This requirement is satisfied in one of three ways. Either 1. the student receives an A or A- in an approved applications course listed in the Appendix; 2. the student passes a departmental exam in an acceptable application subjects, if an exam is offered, or 3. the student has received an A or A- in a similar PhD-level applications course at another university with standards comparable to NYU's. This determination will be made by the DGS.*
If the third option is used, Please attach the documentation provided to DGS to evaluate the course and DGS's approval (e-mail printouts are acceptable).

Type (exam/course): _____ course # (if appl.), title and school: _____

semester/term or date taken: _____ instructor's name: _____ grade: _____

(1d) **Free choice.** *The student must either:*
1. receive an A or A- in an approved course in theory listed in the Appendix; 2. receive an A or A- in an additional course from the courses that can be used to satisfy requirements (1b) or (1c). This course cannot coincide with the courses used to satisfy (1b) and (1c); or 3. have received an A or A- in a similar PhD-level course at another university with standards comparable to NYU's, substantially different from the courses used to satisfy requirements 1b and 1c. This determination will be made by the DGS. If the third option is used, Please attach the documentation provided to DGS to evaluate the course and DGS's approval (e-mail printouts are acceptable).

Course #, title and school: _____

semester/term taken: _____ instructor's name: _____ grade: _____

I have verified that the listed classes and exams satisfy the Ph.D. program rules, and the student has completed the breadth requirements.

Academic Advisor, name: _____ signature: _____ date: _____

Director of Grad. Studies, name: _____ signature: _____ date: _____

Appendix to the Breadth Requirements Form

Using classes taken outside NYU to satisfy the breadth requirements. Please note that DGS's approval for the classes not taken at the NYU CS department needs to be obtained by the student before you approve the form. The approval is not automatic; sufficient documentation needs to be provided to make the determination. Such information would typically include the syllabus, textbooks used, URL of the class Web page if available, a description of the grading policy, sample assignments and the number of assignments, the final exam questions. As a rule, only graduate classes taken at the US or Canadian Ph.D.-granting departments will be counted.

Using the departamental exams to satisfy the Applications requirement. No departamental exams are offered on a regular basis. In most cases, it is best to take an approved class. However, if an exam is necessary, it is student's responsibility to arrange the exam. This is done by asking a faculty member regularly teaching one of the approved applications classes to serve as the exam organizer. The syllabus of the exam should be close to the syllabus of the corresponding class.

Approved Courses.
The following courses can be used to satisfy the breadth requirements:

1b. Systems
G22.2243 High Performance Computer Architecture,
G22.3110 Honors Programming Languages,
G22.3130 Honors Compilers,
G22.3250 Honors Operating Systems.

1c. Applications
G22.2270 Computer Graphics,
G22.2271 Computer Vision,
G22.2434 Advanced Database Systems,
G22.2560 Artificial Intelligence,
G22.2590 Natural Language Processing.

1d. Free choice
Any of the courses listed under 1b and 1c, or any of the following courses:
G22.2420 Numerical Methods I,
G22.2421 Numerical Methods II,
G22.3033-002 Logic in Computer Science (approved for fall 2003),
G22.3130 Honors Theory.