PhD Breadth Requirement

Harrison Ford, Jr. UVic ID: V00123456, hfj@uvic.ca

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Supervisor: Sean Connery

Members of the Supervisory Committee (if known): James Bond, Obi-Wan Kenobi, Indiana Jones.

Program Start Date: September 2210.

This document contains the items to be used to satisfy the Breadth Requirements set for PhD candidates by the Department of Computer Science at the University of Victoria. A summary is given in Table 1.

1. On completion of all proposed courses, the program will contain at least seven graduate level courses, or equivalent professional experience (to be approved by the Graduate Committee) covering the fields of Systems, Theory, and Applications, meeting requirement (1).
2. Each category is covered by at least one course, and only one here, namely Theory, has a single course, meeting requirement (2).
3. All grades in the courses already completed are above B, meeting requirement (3).
4. One of the courses is in Electrical Engineering. It is relevant to the Computer Science program and has been approved by the supervisor, as per item (4).

Table 1: Summary of Components for the PhD Breadth Requirements

Category	Course or Other	Where and When	Grade	Area
Systems	CS 566 Broadband Communications	Univ. of XXX, Comp. Science, Fall 2208 (as part of MSc program)	A	Networking
	CSC 591 Advanced Distributed Systems	Univ. of Victoria, Fall 2210	A+	Operating Systems
Theory	CSC 552 Graph Algorithms	Univ. of Victoria, Spring 2211	in progress	Algorithms
Applications	CS 5122 Software Usability	Univ. of XXX, Comp. Science, Fall 2208 (as part of MSc program)	B+	User Interfaces
	Software Developer at Star Wars Enterprises	May 2209 to August 2210	References	Graphics
	CS 586E Open Source Software Development	Univ. of XXX, Comp. Science, Fall 2208 (as part of MSc program)	A	Software Engineering
	ELEC 669 Design of Real Time Systems	Univ. of XXX, Comp. Science, Spring 2209 (as part of MSc program)	A-	Software Engineering

1. Systems Category: Descriptions

In this section an explanation is given for the coverage of the Systems category. In this case two graduate level courses are proposed to fulfill the requirements, the first taken as part of the MSc program at the Univ. of XXX in Fall 2208 and the second taken last term here at UVic.

1.1. CS 566 Broadband Communications

- Area: Networking
- Univ. of XXX, Fall 2008
- URL from university site (calendar entry probably): http://whatever
- Textbook: XXXX

Comments, projects, highlights: It is useful to write at least one paragraph about a course taken elsewhere, so that the Graduate Committee does not have problems evaluating the course. There is not usually a question at to the level of the course, since the admission to a PhD program has already evaluated the MSc graduate program and its content. However the placement of the course in a particular category or an area can be argues at times and the Graduate Committee needs all possible insights. It is important that the course is also traceable through an URL or some other reference. The Graduate Committee should not be expected to do any search on behalf of the candidate. It is up to the individual to present as clearly and as effectively as possible a logical discourse of why a certain course should be acceptable as coverage for a certain breadth requirement.

Course description: This probably should be the official calendar description or equivalent.

1.2. CSC 591 Advanced Distributed Systems.

- Area: Operating Systems
- Univ. of Victoria, Fall 2210
- URL from university site (calendar entry probably):
- Textbook: XXXX

Comments, projects, highlights: It is not as necessary to write something about a local course since it is probably known to the Graduate Committee. However two items should potentially be commented upon: the actual area of the course and further clarifications if the course is not in Computer Science.

The former is important as certain courses, especially topic ones, may be taught in completely different ways depending on the instructor. This may imply that a course could be appropriate for a Theory category as opposed to an Applications category depending on its emphasis.

Secondly if the course is not in Computer Science, almost the same amount of commentary necessary for a course outside UVic may be useful to the Committee.

Course description: This probably should be the official calendar description or equivalent.

2. Theory Category: Descriptions

In this section an explanation is given for the coverage of the Theory category. In this case one graduate level course which is currently in progress is proposed to fulfill the requirements.

2.1. CSC 552 Graph Algorithms

- Area: Algorithms
- Univ. of Victoria, Spring 2211, in progress
- URL from university site (calendar entry probably):

Textbook: XXXX

Comments, projects, highlights: It is not as necessary to write something about a local course since it is probably known to the Graduate Committee. However two items should potentially be commented upon: the actual area of the course and further clarifications if the course is not in Computer Science.

The former is important as certain courses, especially topic ones, may be taught in completely different ways depending on the instructor. This may imply that a course could be appropriate for a Theory category as opposed to an Applications category depending on its emphasis.

Secondly if the course is not in Computer Science, almost the same amount of commentary necessary for a course outside UVic may be useful to the Committee.

Course description: This probably should be the official calendar description or equivalent.

3. Applications Category: Descriptions

In this section an explanation is given for the coverage of the Systems category. In this case three graduate level courses are proposed to fulfill the requirements, and a fourth equivalence given by professional experience when working. All three graduate courses were taken as part of the MSc program at the Univ. of XXX in Fall 2208.

3.1. CS 5122 Software Usability

- Area: User Interfaces
- Univ. of XXX, Fall 2008
- URL from university site (calendar entry probably): http://whatever
- Textbook: XXXX

Comments, projects, highlights: It is useful to write at least one paragraph about a course taken elsewhere, so that the Graduate Committee does not have problems evaluating the course. There is not usually a question at to the level of the course, since the admission to a PhD program has already evaluated the MSc graduate program and its content. However the placement of the course in a particular category or an area can be argues at times and the Graduate Committee needs all possible insights. It is important that the course is also traceable through an URL or some other reference. The Graduate Committee should not be expected to do any search on behalf of the candidate. It is up to the individual to present as clearly and as effectively as possible a logical discourse of why a certain course should be acceptable as coverage for a certain breadth requirement.

Course description: This probably should be the official calendar description or equivalent.

3.2. CS 586E Open Source Software Development

- Area: Software Engineering
- Univ. of XXX, Fall 2008
- URL from university site (calendar entry probably): http://whatever
- Textbook: XXXX

Comments, projects, highlights: It is useful to write at least one paragraph about a course taken elsewhere, so that the Graduate Committee does not have problems evaluating the course. There is not usually a question at to the level of the course, since the admission to a PhD program has already evaluated the MSc graduate program and its content. However the placement of the course in a particular category or an area can be argues at times and the Graduate Committee needs all possible insights. It is important that the course is also traceable through an URL or some other reference. The Graduate Committee should not be expected to do any search on behalf of the candidate. It is up to the individual to present as clearly and as effectively as possible a logical discourse of why a certain course should be acceptable as coverage for a certain breadth requirement.

Course description: This probably should be the official calendar description or equivalent.

3.3. ELEC 669 Design of Real Time Systems

- Area: Software Engineering
- Univ. of XXX, Fall 2008
- URL from university site (calendar entry probably): http://whatever
- Textbook: XXXX

Comments, projects, highlights: It is useful to write at least one paragraph about a course taken elsewhere, so that the Graduate Committee does not have problems evaluating the course. There is not usually a question at to the level of the course, since the admission to a PhD program has already evaluated the MSc graduate program and its content. However the placement of the course in a particular category or an area can be argues at times and the Graduate Committee needs all possible insights. It is important that the course is also traceable through an URL or some other reference. The Graduate Committee should not be expected to do any search on behalf of the candidate. It is up to the individual to present as clearly and as effectively as possible a logical discourse of why a certain course should be acceptable as coverage for a certain breadth requirement.

Course description: This probably should be the official calendar description or equivalent.

3.4. Software Developer at Star Wars Enterprises

- Area: Graphics
- May 2209 to August 2210

Description of work: A good description of the position and responsibilities is necessary in order to convince the Graduate Committee that the professional experience indeed covers a research area of the field and was not merely a technical job. This should be interpreted in view of the perceived, and hopefully present, difference between an undergraduate 4th year course and a graduate course. In the former advanced topics are covered, yet strong and precise directives are normally given for assignments, tests and projects. In the latter a student is normally expected to contribute in the search for solutions and problems, and projects should be self-directed and aiming at research topics.