Eastern Washington University
Department of Computer Science

Questionnaire for Prospective Masters in Computer Science Students

I. Personal Information

Name: _______________________________ _______________ _______________

Last First M.I.

Mailing Address: _______________________________________________________

Permanent Address (if different): _________________________________________

Home Phone: ___________________ Work Phone: _____________________

Cell Phone: _____________________

Email: ____________________________

II. Academic Goal

Term for which you are applying: Fall _____ Winter _____ Spring _____ Year _____

Interest Areas (elaborate as possible):

Biomedical Computing
Computational Intelligence
Computer Architecture & Embedded Systems
Computer Security
Database
Graphics
Image and Signal Processing
Intelligent Informatics
Networked Computing
Numerical Methods
Parallel and Distributed Processing
Software Engineering
Other

Comments: ___________________________________________________________

III. Academic Background

Undergraduate overall grade point average (4 point scale) ___________

Revised 9/29/09
GRE/GMAT results  (note: only if available, GRE and GMAT are NOT required)

<table>
<thead>
<tr>
<th>GRE general exam</th>
<th>Date</th>
<th>Verbal</th>
<th>Quantitative</th>
<th>Analytical</th>
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</thead>
<tbody>
<tr>
<td>GRE subject exam</td>
<td>Date</td>
<td>Subject</td>
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<td>Score</td>
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<tr>
<td>GMAT exam</td>
<td>Date</td>
<td>Subject</td>
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<td>Score</td>
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TOEFL results (required for students whose native language is not English)

Date: ___________________  Score: ___________________

Other exams:

Exam name:
Date: _______________  Score: _______________

Exam name:
Date: _______________  Score: _______________

IV. Work Experience  (if more space is required, attach additional pages)

<table>
<thead>
<tr>
<th>Dates</th>
<th>Type of work and/or position</th>
<th>Computer related aspects, if any</th>
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V. Experience with Computer Systems
VI. Readiness Assessment

Please fill in the following pages carefully. This will help to assess your readiness and aid in correct placement within the curriculum. Each item will describe an EWU course and content. Insofar as possible, make a companion entry, which gives corresponding coursework which you have completed from your institution.

Fundamental Programming:

(See CSCD 210, 211 Programming Principles I, II)
Introduction to the concepts and practices of information representation, computer algorithms, hardware organization, computer program design and implementation, simple data structures (e.g. multidimensional arrays and classes), object-oriented programming, exception handling. Students design, implement, test, and debug computer programs using a current object-oriented programming language such as Java.

If you have had a similar course sequence, fill in the following:
When: __________________ Institution
Course Number(s): __________________ *Quarter credits: __________________ Grades: __________________
Topics from the above list not included in your course:

Topics included in your course, not in the above list:

(*A semester credit equals 1.5 quarter credits)

C Programming & Unix Operating System

(See CSCD 240 C & Unix Programming)
An introduction to the use of the UNIX operating system, and syntax and programming techniques of the C language in that environment. UNIX topics include interactive shells, common text editors, utility programs, file system structure, libraries and operating system calls and system programming. C topics include data types, structures, pointers and pointer arithmetic, arrays, linked lists and function design and use.
If you have had a similar course, fill in the following:

When: ___________________________ Institution
Course Number(s): ________________ *Quarter credits: ________________ Grades: ____________
Topics from the above list not included in your course:

Topics included in your course, not in the above list:

(*A semester credit equals 1.5 quarter credits)

Data Structures, Algorithms:

(See CSCD 300, 320 Data Structures, Algorithms)
Abstract concepts of data structures and implementation in a programming language. Topics include linked lists, stacks, queues, hashing, recursion, complexity analysis of algorithms, binary search trees and heaps. Logic, methods of proof, set theory, relations and functions, numerical representations, cardinality, computability, combinatorics, discrete probability, computational complexity and graph theory. Algorithmic strategies such as dynamic programming and non-linear data structures such as trees and graphs.

If you have had a similar course sequence, fill in the following:

When: ___________________________ Institution
Course Number(s): ________________ *Quarter credits: ________________ Grades: ____________
Topics from the above list not included in your course:

Topics included in your course, not in the above list:

(*A semester credit equals 1.5 quarter credits)

Operating Systems:

(See CSCD 340 Operating Systems I)
Major concepts in the design and modeling of operating systems for digital computers, including simulation techniques, memory management, system protection, I/O management, CPU scheduling, process management, and file systems. Traditional programming, program analyses and written reports.

If you have had a similar course sequence, fill in the following:

When: __________________________ Institution
Course Number(s): ___________ *Quarter credits: ___________ Grades: ___________
Topics from the above list not included in your course:

Topics included in your course, not in the above list:

Mathematics:

Discrete Math
(See MATH 301 Discrete Mathematics or MATH 225 Foundations of Mathematics)
Topics most relevant to Computer Science including set theory, logic, graph theory, basic number theory, mathematical induction, and recursion.

If you have had a similar course, fill in the following:

When: __________________________ Institution
Course Number(s): ___________ *Quarter credits: ___________ Grades: ___________
Topics from the above list not included in your course:

Topics included in your course, not in the above list:

(*A semester credit equals 1.5 quarter credits)