

Initial Course Questionnaire

Name: _____

Email: _____

1. The type of my (current) degree program is:

- Bachelor's
 Master's with Thesis
 Master's without Thesis
 Doctoral
 other (specify) _____

2. The discipline of my (current) degree program is:

- biomedical engineering
 computer engineering
 electrical engineering
 software engineering
 other (specify) _____

3. Of the major topics covered in the course, the one that most strongly compelled me to take the course was:

- multirate signal processing (e.g., multirate systems, filter banks, transmultiplexers)
 geometry processing (e.g., polygon meshes, subdivision surfaces)
 C++ programming language
 all topics were of equal interest
 other (specify) _____

4. For each programming language listed below, check the box that best describes your level of proficiency in the language. The definitions of the various proficiency levels are also given below.

Level	Description	Language	None	Novice	Intermediate	Advanced
None	No knowledge at all	C++	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Novice	Only very limited knowledge	C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intermediate	Basic working knowledge of language	Java	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Advanced	In-depth understanding of entire language	C#	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Objective C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Fortran	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		MATLAB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Assembly	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5. If, in your response to the previous question, you indicated a proficiency level for C++ of novice, intermediate, or advanced, indicate the C++ features/terms/concepts with which you are familiar in the list below. Check all that apply.

- | | | | |
|---|---|---|---|
| <input type="checkbox"/> Basic Syntax | <input type="checkbox"/> Classes | <input type="checkbox"/> Functors | <input type="checkbox"/> Atomics |
| <input type="checkbox"/> Pointers | <input type="checkbox"/> Constructors/Destructors | <input type="checkbox"/> Lambdas and Closures | <input type="checkbox"/> Memory Model |
| <input type="checkbox"/> References | <input type="checkbox"/> Initializer Lists | <input type="checkbox"/> Inheritance | <input type="checkbox"/> STL Containers |
| <input type="checkbox"/> Const Correctness | <input type="checkbox"/> Static Members | <input type="checkbox"/> Polymorphism | <input type="checkbox"/> STL Iterators |
| <input type="checkbox"/> Default Arguments | <input type="checkbox"/> Temporary Objects | <input type="checkbox"/> Exceptions | <input type="checkbox"/> STL Algorithms |
| <input type="checkbox"/> Namespaces | <input type="checkbox"/> Operator Overloading | <input type="checkbox"/> Threads | <input type="checkbox"/> I/O Streams |
| <input type="checkbox"/> New/Delete | <input type="checkbox"/> Templates | <input type="checkbox"/> Mutexes | <input type="checkbox"/> RAII |
| <input type="checkbox"/> Function Overloading | <input type="checkbox"/> Template Specialization | <input type="checkbox"/> Condition Variables | <input type="checkbox"/> Smart Pointers |
| <input type="checkbox"/> Move Semantics | <input type="checkbox"/> Variadic Templates | <input type="checkbox"/> Promises/Futures | |

6. For each item (e.g., software/web tool, operating system, etc.) listed below, check the box that best describes your level of proficiency in that item. The definitions of the various proficiency levels are also given below.

Level	Description	Item	None	Novice	Intermediate	Advanced
None	No knowledge at all	CMake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Novice	Only very limited knowledge	Git	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intermediate	Basic working knowledge	GitHub	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Advanced	In-depth understanding	Linux	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>