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.

<table>
<thead>
<tr>
<th>Language</th>
<th>None</th>
<th>Novice</th>
<th>Intermediate</th>
<th>Advanced</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Java</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C#</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Objective C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fortran</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATLAB</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assembly</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

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

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.

<table>
<thead>
<tr>
<th>Item</th>
<th>None</th>
<th>Novice</th>
<th>Intermediate</th>
<th>Advanced</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMake</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Git</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GitHub</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linux</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Instructor: Michael D. Adams
Version: 2017-03-29