CSCE482/3: Capstone – Student Questionnaire

Name: _____

UIN: _____   Due: Aug 29, 2018

This questionnaire is being distributed to help us learn more about your interests, academic strengths and experiences. The information you provide will assist us in assigning you to the appropriate project.

Question 1

The last page of this handout lists a number of Computer Science and Engineering specialties. Please select the top three areas that best describe your **interests**.

My first choice is _____

My second choice is _____

My third choice is _____

Question 2

List the top three courses that you have enjoyed the most during your undergraduate studies.

The best course was _____

The second best course was _____

The third best course was _____

Question 3

Describe your **strengths**. For example, would you describe yourself as a software person, a hardware person, or both? Are you better at creating, analyzing or implementing solutions? Are you a bottom-up or a top-down person? How are your communication skills?

Question 4

Describe any hands-on **skills** (e.g., programming languages, software packages, design tools) that would make you attractive to a potential employer.

Question 5

Describe any **experiences** (e.g., internships, co-ops, undergraduate research, and general employment) that may complement your academic credentials.

Question 6

Have you worked with any embedded hardware, such as arduinos, raspberry PI modules, etc? Have you programmed as networked communication software using TCP/IPsockets? Have you worked with sensors like cameras, the kinect, or accelerometers before?

Question 7

One of the members of each team will act as the leader. In addition to performing technical tasks, the leader has additional responsibilities, which include scheduling team building activities, facilitating discussions and brainstorming sessions, helping resolve conflicts, monitoring progress (both individual and group), milestones, and ensuring equal distribution of workload across team members. Would you like to be considered for a leadership role in your team? If so, why? If not, why not?

Question 8: Project Ideas

Do you have any ideas for projects that you would like to work on? It might be based on a work or volunteer experience, or a hobby. The project should be the appropriate scope for a 3–5 person team, but even if it is a partially formed idea, this can help give a sense of (i) what you'd like to work on; (ii) a way to match people with similar interests and motivation; (iii) a potential starting point for the team's project.

Areas of Interest

TH Theory, parallel algorithms, algorithms, combinatorics, optimization, cryptography, theoretical computer science

Chi+ Human computer interaction, multimedia, cognitive modeling, hyper/multi media/text, digital libraries

CSys Computer systems, computer architecture, resilient CSys, fault tolerance, VLSI

NetDis Networks, communications, distributed systems/computing, computer communication, distributed/concurrent systems, telecommunications, high speed network, scalable infrastructure, security, cryptography Web, Internet, XML, HTML, e-commerce

RT Real-time systems, embedded computers/systems

OS Operating systems, remote computing, cooperating processes

SW Software engineering, software, distributed agents, intelligent agents, object oriented model design, formal methods, software metrics

CmplLang Compilers (often parallel), language design

DB Database, distributed DB, DB management systems, OODB, information systems

IS/R Information storage and retrieval, data mining

AI/ap Artificial intelligence, neural nets, fuzzy logic, machine learning, intelligent agents, virtual reality, data mining

CSE Computational science/engineering, computational mathematics, numerical analysis/computing, scientific computing, simulation, high performance computing

Gr/Viz Computer vision, image processing, imaging, graphics

Rob Manufacturing automation, robotics, industrial automation, sensors

Other Any other specialties not included in this list (please specify)