Attendance System
Non-Functional Requirements

1. Usability
   - 1.1. Human factors
     - 1.1.1. The system shall conform to all human factors standards taught in this university program. The system should serve as a positive example that students may strive to emulate.
   - 1.2. Aesthetics
     - 1.2.1. The system shall conform to all aesthetics standards taught in this university program. The system should serve as a positive example that students may strive to emulate.
   - 1.3. Consistency in the user interface
     - 1.3.1. The system shall conform to all interface consistency standards taught in this university program. The system should serve as a positive example that students may strive to emulate.
   - 1.4. Online and context sensitive help
     - 1.4.1. The system shall include a custom help screen for each screen within the system on which the user may perform typical C-R-U-D functions. Simple display pages will not require a custom help screen.
   - 1.5. Wizards and agents
     - 1.5.1. No further requirements anticipated.
   - 1.6. User Documentation
     - 1.6.1. See 1.4.1 (above).
     - 1.6.2. A short tutorial video will be created for students to help them learn how to use the system effectively.
   - 1.7. Training Materials
     - 1.7.1. See 1.6.2 (above).

2. Reliability
   - 2.1. Frequency and severity of failure
     - 2.1.1. System shall fail no more frequently than once per week.
   - 2.2. Recoverability
     - 2.2.1. System shall be recoverable within one hour.
   - 2.3. Predictability
     - 2.3.1. No further requirements anticipated.
   - 2.4. Accuracy
     - 2.4.1. System shall be 100% accurate in its retention of attendance information that has been entered by student and confirmed by system.

3. Performance
   3.1. Speed
      3.1.1. No further requirements anticipated.
   3.2. Efficiency
      3.2.1. No further requirements anticipated.
   3.3. Throughput
      3.3.1. The system shall support up to 70 simultaneous student users.
      3.3.2. The system shall support up to 5 simultaneous instructor users.
   3.4. Response time
      3.4.1. System screens shall exhibit no greater than 2 second response time.

4. Supportability
   4.1. Testability
      4.1.1. There is a preference for systems that will include a suite of unit and integrations tests based on a testing framework such as JUnit.
   4.2. Extensibility
      4.2.1. The system must be extensible by building custom software that may share the same databases.
   4.3. Adaptability
      4.3.1. No further requirements anticipated.
   4.4. Maintainability
      4.4.1. There is a preference for systems that will include the use of source code version control as provided in systems like Git or Subversion.
   4.5. Compatibility
      4.5.1. There is a preference for systems developed using Java SE and JEE tools.
   4.6. Configurability
      4.6.1. System shall be configurable such that courses taught at more than one institution may be serviced by the same system instance.
   4.7. Serviceability
      4.7.1. System shall be unavailable at least one hour per day to allow for maintenance, upgrades, and repairs.
   4.8. Installability
      4.8.1. No further requirements are anticipated.
   4.9. Localizability (internationalization)
      4.9.1. At this time, only support for U.S. English is anticipated.