Chemistry

**Software Quality Assurance**

**SQA Requirements**

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| **Revision Number** | **Revision Date** | **Author** | **Summary of Changes** |
| 1 | 4-17-2013 | John Gibbons | Initial creation of document and draft. |
| 2 | 4-19-2013 | John Gibbons | Second revision of draft and added additional items. |
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# Documentation Standards:

* Were the documents prepared in accordance with Object Oriented Design principles?
* Is there a cover sheet and table of contents?
* Is there revision control?

# Feasibility:

* Have the client been met with and proper contact information exchanged?
* Have a domain analysis been done?
* Have features from similar software been identified?
* Has an appropriate development cycle been decided upon?
* Are proposed milestones realistic?
* Has a list of deliverables been made?
* Has the customer signed off on the list of deliverables and it satisfied with them?
* Is the list of deliverables reasonable for the time constraints?

# SRS:

* Has all requirements in the SRS requirements document been fully documented?
* Has the customer signed off on all requirements in the SRS document?
* Are all requirements properly incorporated into the program design?
* Were there any models submitted with the requirements from the customer?
* Were those models complete and relatable?
* Do all requirements function according to the customers' models?
* Does the domain analysis show other programs with these requirements?
* Is the work breakdown structure and timeline reasonable?
* Are there any risks with the requirements being changed?
* Are there any risks with the deliverables being changed?
* Was research done into the machines this program would be running on?
* Was research done on the operating systems this program will be running on?
* Was research done on the minimum requirements needed to run this program?
* Was research done in I/O devices needed for this program to function properly with?
* Was research done on what is needed to upgrade the software/hardware on the machines if there were unsatisfactory?
* Does the program run properly on systems containing the minimum set requirements?
* Was storing results of the program address?
* Was security of the data generated by the program addressed?

# Management:

* Is there a plan in place to ensure requirements are developed to the customers' requirements?
* Is there a plan in place to handle changes in requirements/deliverables during the project?
* Can the development team change requirements or deliverables without consulting the client?

# Support Material:

* Are all use cases accounted for and adequately represent the requirements?
* Does each use case have at least one use case scenario?
* Does the interface between the code in Java and the animation in Python 3act as intended?
* Does the UML clearly show the relationships between each class?
* Has the general user population been determined?
* Has the design of the GUI and features taken this into account?
* Has any and all text seen by the user been written in terms the user will easily understand?
* Do external interfaces function as intended?
* Is the system reliable?
* Does the program meet the requirements set by the client?