# High-Level Requirements - SUN Lab System

1.  The system must ensure the lab door stays closed at all times.

2.  The system must require students to swipe their student cards on the card reader device in order to gain access or exit the lab.

3.  The system must capture the following data when a card is swiped:

    a.  Student's ID number

    b.  Date and time of access event

4.  Access data must be stored in a database for 5 years.

5.  The system must provide functionality for authorized personnel (admins) to view the access history of the SUN Lab.

6.  The system must allow admins to browse and filter the list of records based on:

    a.  Student ID number

    b.  Date

    c.  Time range

7.  The system must provide a Graphical User Interface (GUI) for admins to perform the following tasks:

    a.  Browse the list of access records

    b.  Search through records using the filtering criteria

8. The system must be designed to accommodate the addition of multiple users in the future, such as:

    a. Faculty

    b. Staff

    c. Janitors

9. The system must support the following operations in the future through an admin account:

    a. Activate user IDs

    b. Suspend user IDs

    c. Reactivate user IDs