Software Requirement Specification

for

Student One-Click Scheduling

Version 1.0

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# Preface

## Introduction

This Software Requirements Document (SRS) should be used to define expectations of the auto-scheduler software.

## Purpose

The following is a software requirements specifications document for a university auto-scheduler. The below sections are intended to define the necessary requirements and interactions with the auto-scheduler and the end-user.

## Document Conventions

This document organizes the information into four different sections: Preface, Overall Description, Functional Requirements, and Non-Functional Requirements. The preface discusses this document. The Overall Description describes the software. The Functional requirements outline use cases. And the Non-Functional Requirements section will outline the reliability, robustness, maintainability, and security.

## Intended audience

This document is intended for both the end-users, which are university students, and the software developers of the application.

## Proposed Document Scope

This SRS will cover the operations of the auto-scheduler software and its interactions with the end-user. Topics covered by this document are: handling degree paths, handling degree path requirements, and the application to automatically choose the best schedule for the student.

## Definitions

1. Student Class Level – This defines the level year of the student whether it be freshman, sophomore, junior, or senior.
2. Major – This is the coursework that composes the largest portion of the degree plan chosen by the student.
3. End-user – This is the college student who will use this application to automatically select the best schedule for them.
4. Peak – This is a feature of the software to allow the student to view the automatically chosen schedule without committing to it.
5. Application – For the remainder of this document refers to the auto-scheduler software.
6. Course – This refers to the class assigned to the student.
7. Degree – This will refer to the level and school that the student will be receiving their diploma from. For example, Bachelor of Science.

# Overall Description

## Document Perspective

## Document Functions

## User Characteristics

## End-User Operating Environment

## Design and Implementation Constraints

# Functional Requirements

## Summery

## Use Cases

# Non Functional Requirements

## Reliability

## Robustness:

## Maintainability

## Security