

myADVISE
Technical Manual

Version 1.0
December 7, 2016

1. Introduction

This document describes the myADVISE web application, instructions for access and use, and other information regarding the software.

myADVISE is designed to aid incoming and returning engineering students plan their schedules based on the current flight plan. The application is capable of taking user preferences into account while creating a schedule. This tool is meant to be used as supplementary schedule generator to help students plan and prepare for future semesters.

2. Installation

myADVISE is web application and only requires that a web browser be installed on the client machine. An internet connection is a necessity in order to access the myADVISE site. The internet browser that the client is using will determine if there are any additional client-side dependencies that will be required in order to run myADVISE. Any modern browser should be capable of running the application as there are no third party runtime environments in use in the product.

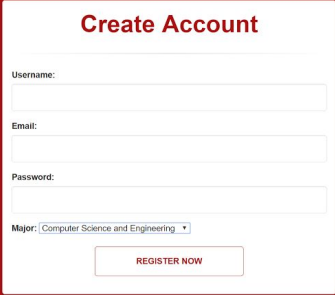
3. Using the Product

Using myADVISE is simple; the site was designed to provide a seamless experience that is easy to follow and understand. myADVISE requires that new users create an account the first time they use the site in order to track and update the user's courses they've already taken and keep a running total of how far they've progressed in their major.

3.1. Account Creation

Signing up is easy, it requires only a valid username, louisville.edu email address, and valid password (must be at least 6 characters). After a user has signed up they're able to create a schedule, modify account settings, and view

progress towards their degree!

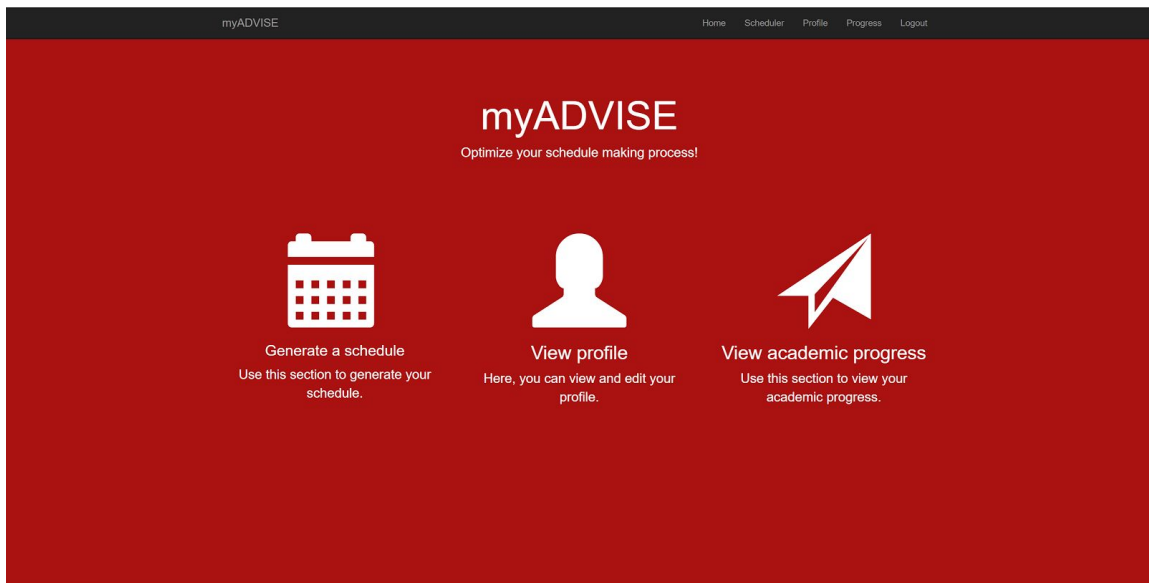


The image shows a 'Create Account' form centered on a solid red background. The form is white with a thin border. It contains the following fields: 'Username:' with a text input, 'Email:' with a text input, 'Password:' with a text input, and 'Major:' with a dropdown menu showing 'Computer Science and Engineering'. Below these fields is a red button with the text 'REGISTER NOW'.

Returning users will be asked to login; this is a similar process, though it only requires that the user enter his/her username and password. The system will verify credentials and redirect the user to the home page.

3.2. myADVISE Home Page

Once the user has made it to the home page, they're able to access all features available through the myADVISE app. From the homepage it is possible to edit account information on the profile page, update the courses taken on the progress page, or build a schedule.



3.3. Progress Page

The progress page is useful for updating any courses that have already been taken. Once information has been updated, submit changes using the button at the bottom of the page.

myADVISE Home Scheduler Profile Progress Logout

Update Completed Courses Below

Fall 1

#	Course Title	Units	Subject	Completed
1	General Chemistry I	3	CHEM	<input checked="" type="checkbox"/>
2	Intro to Chem Analysis I (CoReq CHEM 201)	1	CHEM	<input checked="" type="checkbox"/>
3	Intro to College Writing - I (P)	3	ENGL	<input checked="" type="checkbox"/>
4	Engineering Analysis I (P)	4	ENGR	<input checked="" type="checkbox"/>
5	Engineering Methods, Tools and Practice I (P) (Fall)	2	ENGR	<input checked="" type="checkbox"/>

Spring 1

#	Course Title	Units	Subject	Completed
1	Intro to Programming Languages (P)	3	CECS	<input checked="" type="checkbox"/>
2	Intermediate College Writing - II (ENGL 101)	3	ENGL	<input checked="" type="checkbox"/>
3	Engineering Analysis II (P) (ENGR 101)	4	ENGR	<input checked="" type="checkbox"/>
4	Engineering Methods, Tools and Practice II (ENGR 110) (Spring)	2	ENGR	<input checked="" type="checkbox"/>
5	Physics I Lab (PreReq or CoReq PHYS 298)	1	PHYS	<input checked="" type="checkbox"/>
6	Physics I (P) (CoReq ENGR 101)	4	PHYS	<input checked="" type="checkbox"/>

Summer 1

#	Course Title	Units	Subject	Completed
1	OO Prog Design with Java (CECS 130)	3	CECS	<input type="checkbox"/>
2	Engineering Analysis III (P) (ENGR 102)	4	ENGR	<input type="checkbox"/>

3.4. Profile Page

The profile page allows for the user to update account information and specify preferences when building a schedule. In order to ensure a viable schedule is created, specify any scheduling preferences before generating.

myADVISE Home Scheduler Profile Progress Logout

SRS

Major: CECS

ENGR 201
MWF: 09:00am-09:50am
TZ: 09:30am-10:45am
ARTH 203
TZ: 02:30pm-03:45pm
PHYS 299
Z: 01:00pm-01:50pm
MWF: 10:00am-10:50am
ECE 211
W: 03:00pm-05:30pm
ECE 210
MWF: 11:00am-11:50am
CECS 220

EDIT INFO

CHANGE MAJOR

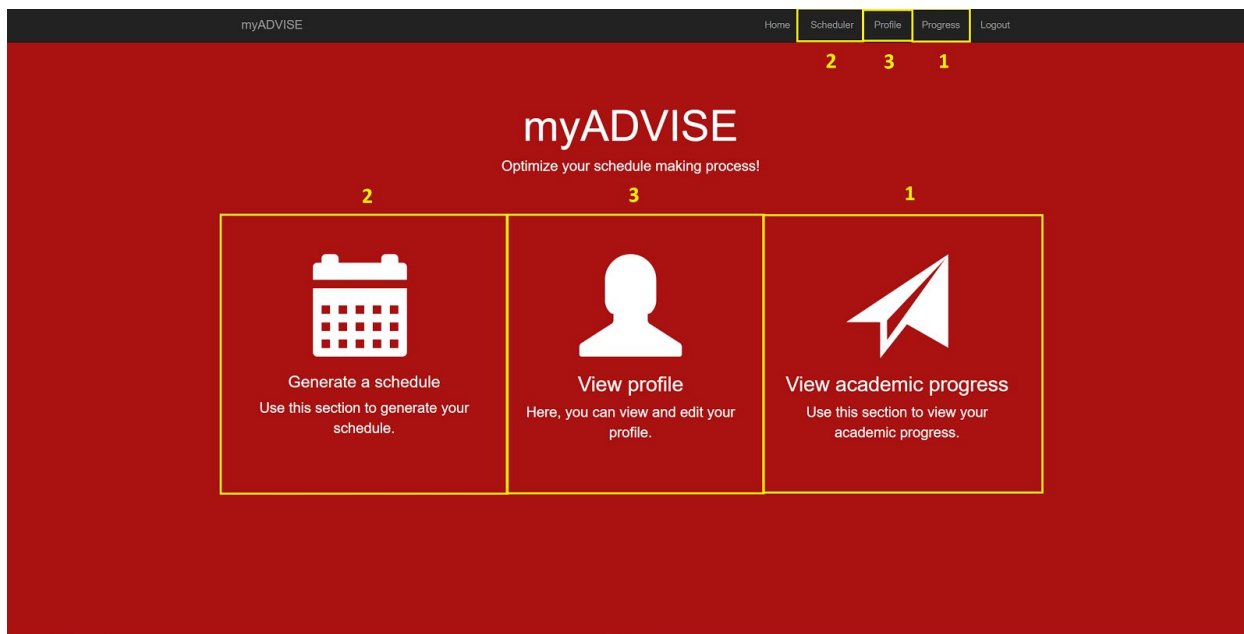
Current Schedule

Mon	Tue	Wed	Thu	Fri
ENGR 201		ENGR 201		ENGR 201
	ENGR 201		ENGR 201	
	ARTH 203		ARTH 203	
			PHYS 299	
PHYS 299		PHYS 299		PHYS 299
		ECE 211		
ECE 210		ECE 210		ECE 210
	CECS 220		CECS 220	

Flight Plan Progress

3.5. Generating a Schedule

The schedule generation works best if course history and preferences are provided before attempting to build. Navigate to the Progress & Profile pages to change those settings. All pages can be accessed from the navbar found at the top of the page, or from the home screen. Once all settings have been saved, simply click the Scheduling button either on the navbar or on the homepage. The recommended order of completion can be observed below.



3.6. Prerequisites

- User must be a current UofL Speed School Student
- User must have an active internet connection
- User must know any prior classes taken (if any) in order to receive accurate scheduling information

3.7. Accessing myADVISE

Navigating to <https://www.myADVISE.herokuapp.com> will direct the user to the login page.

4. Known Issues

- 4.1. The scheduler is currently incapable of validating pre/corequisite requirements. Therefore, it is possible that the scheduler recommends an otherwise valid schedule that features classes the user cannot take at the time. This issue is due

to the difficulty of working with the current data in the database. There was no clear way to tackle this issue.

- 4.2. It is technically possible for the same general education elective to be scheduled twice. There is currently no way to signify which specific general education course was taken; the JSON only indicates that a general education course that meets a specific requirement was completed. This could possibly lead to the scheduler recommending a general education course they have already completed.
- 4.3. The weekview representation for generated schedules is not completely accurate at this point.
- 4.4. User preferences (as far as time) are not considered when adding general education courses. The scheduler tries to have at least one general education class in every schedule, but the logic that adds the general education class only takes into account time conflicts.
- 4.5. Summer semesters are currently not considered.
- 4.6. Some of the data for the courses in the database is bad. This could be greatly helped through access to the UofL course catalog database.
- 4.7. Profile page does not pull current user preferences; when the user attempts to set them, they are initially set to the default values. The profile displays values that are not actually indicative of the database. The user has to update both time preference and course load preference each time they wish to change their preferences because of this.
- 4.8. No access to UofL course catalog