

TA/GA Schedule Generator

Installation Guide & User Manual

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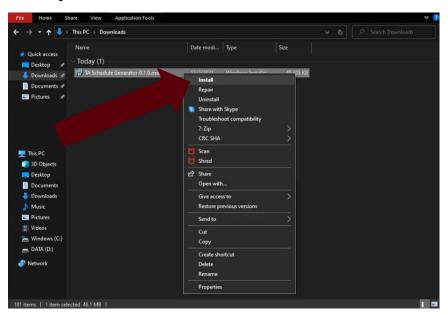
1.1 Prerequisites

In order to install the TA/GA Schedule Generator, the following Hardware and Software requirements are required:

• Windows Operating System

1.2 Install & Run TA/GA Schedule Generator Installer

1. After locating the TA Schedule Generator-0.1.0.msi file, right-click and select 'Install' to begin the process of installing the TA Schedule Generator with the Setup Wizard.

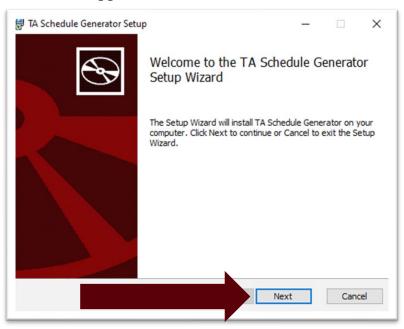


2. The Windows Defender SmartScreen may prevent the app from starting but selecting 'Run Anyway' will allow the Installer to begin setup for the application.

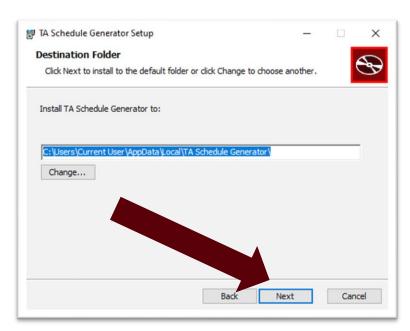


1.3 Select Destination Folder & Install Dependencies

3. The TA/GA Schedule Generator Setup Wizard will begin the install of the Schedule Generator application on the machine.



4. The Installer will pre-fill the Default 'Destination Folder' as the Current User's local AppData folder, but if needed the 'Change...' button allows for custom 'Destination Folder' selection.



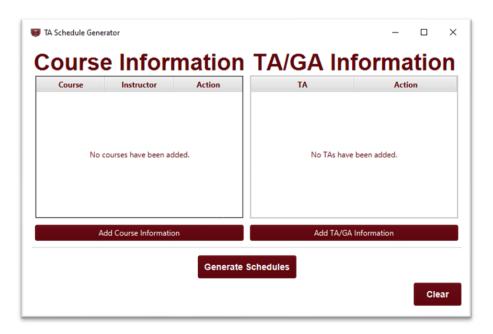
1.3 Open TA/GA Schedule Generator

5. The Installer will proceed to install all required dependencies for the application as well as create a desktop shortcut for the application and then display a prompt when done to exit the Setup Wizard.

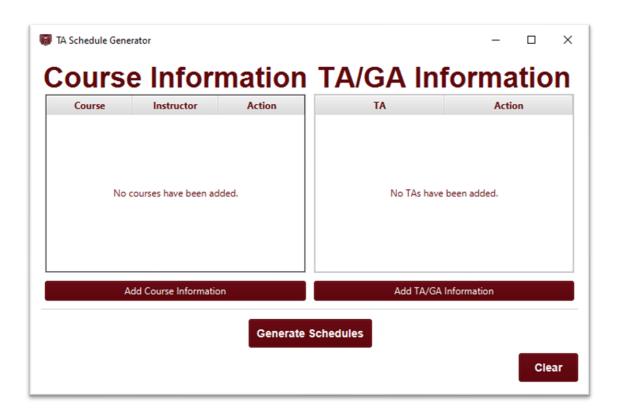


6. Upon double clicking the created Desktop shortcut named 'TA-GA Schedule Generator' the application should open and allow for data to be entered.



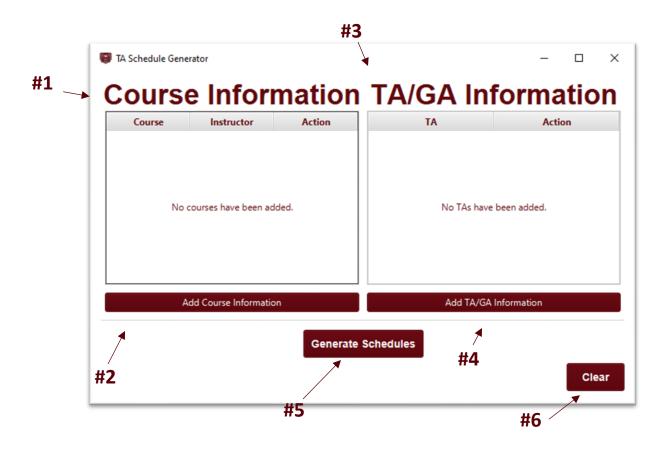


2.1 Dashboard / Home Screen



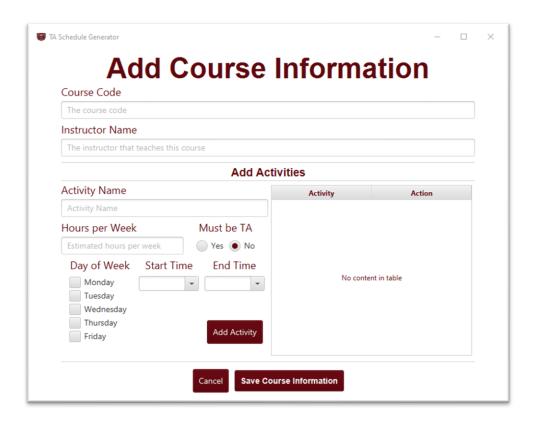
The Dashboard is the home screen of the TA/GA Schedule Generator. From the Dashboard, you can navigate to the Add Course Information Scene, the Add TA/GA Information Scene, and the View Generated Schedules scene. Additionally, the Dashboard allows you to view courses and TAs/GAs that have already been inserted into the system.

2.1.1 Dashboard Key Elements



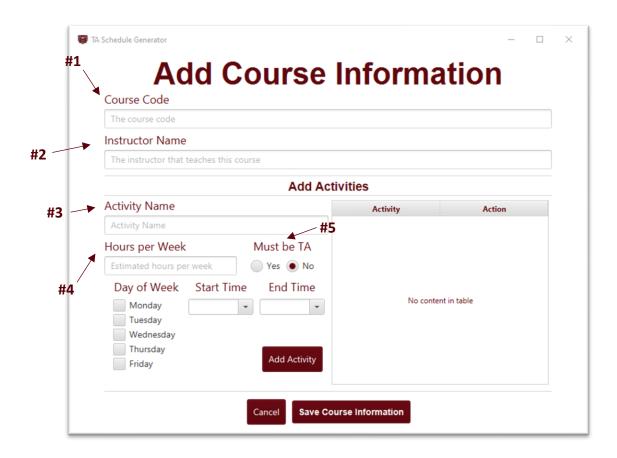
- 1. Course Information Table information on previously entered courses will be displayed here
- 2. Add Course Information Button click this button to navigate to the Add Course Information Scene
- 3. TA/GA Information Table information on previously entered TAs/GAs will be displayed here
- 4. Add TA/GA Information Button click this button to navigate to the Add TA/GA Information Scene
- 5. Generate Schedules Button click this button to generate schedules based on course and TA/GA inputs. Also navigates to the View Generated Schedules Scene
- 6. Clear Button click this button to remove all course and TA/GA inputs.

2.2 How To Add a Course



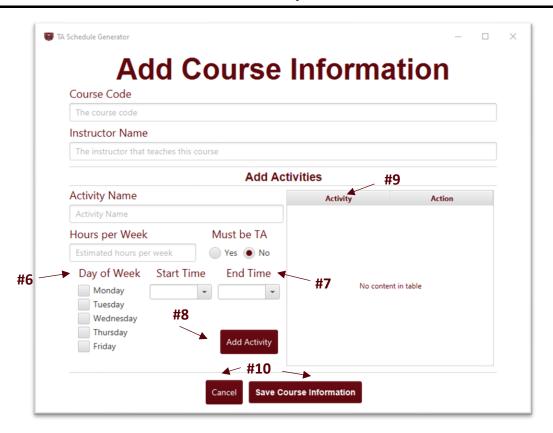
The Add Course Information scene is where all required course information is input into the system. From the Add Course Information Scene, you can provide the name of the course, the name of the course instructor, and add activities to the course.

2.2.1 Add Course Information Key Elements



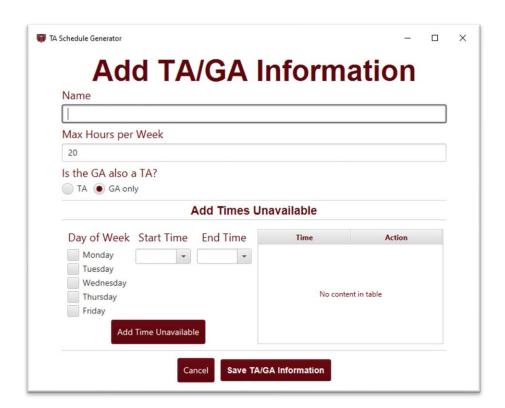
- 1. Course Code Input User input text for the course code will be entered here
- 2. Instructor Name Input User input text for the instructor of the course will be entered here
- 3. Activity Name Input User input for the activity name will be entered here
- 4. Hours per Week Input User input for the length of the activity will be entered here
- 5. Must be TA Selection User selection for if the activity requires a TA will be chosen here

2.2.1 Add Course Information Key Elements cont.



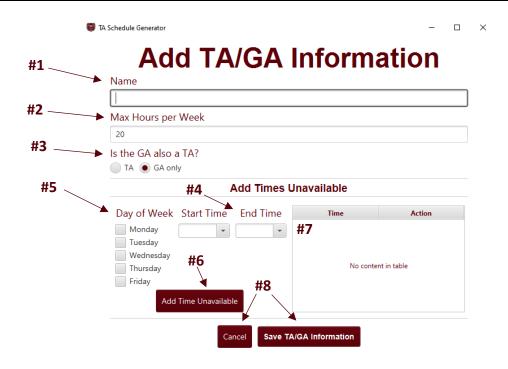
- 6. Day Of Week Selection User selection for the day or days of the week the activity takes place will be selected here. You can select multiple days for a single activity.
- 7. Start and End Time Selection Activity beginning and end times will be selected from the dropdown lists here. Activities with fixed times require start and end times to avoid schedule conflicts with TAs/GAs, but not all activities require time inputs.
- 8. Add Activity To add the activity information to the course, select the 'Add Activity' button.
- 9. Activity Table Activities previously input for the course will be displayed here.
- 10. Save Course Information and Cancel Buttons To save changes made, select the 'Save Course Information Button'. To discard the entered information, select the 'Cancel' button.

2.3 Adding TA or GA Information



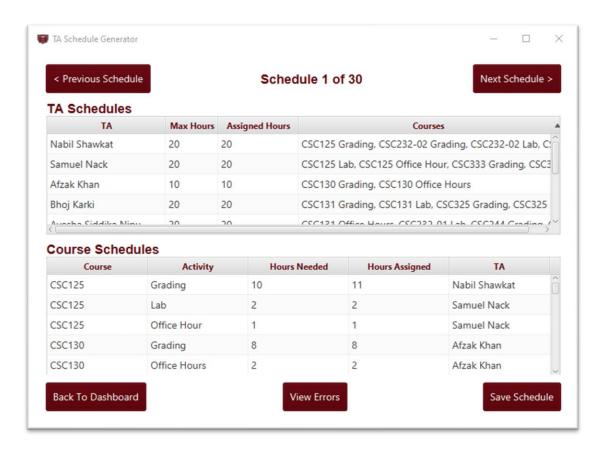
The Add TA/GA Information scene is where all required TA/GA information is input into the system. From the Add TA/GA Information Scene, you can provide the name of the student, the maximum hours they can work per week, if the student is a TA or only a GA, and add times they are unavailable.

2.3.1 Adding TA/GA Key Elements



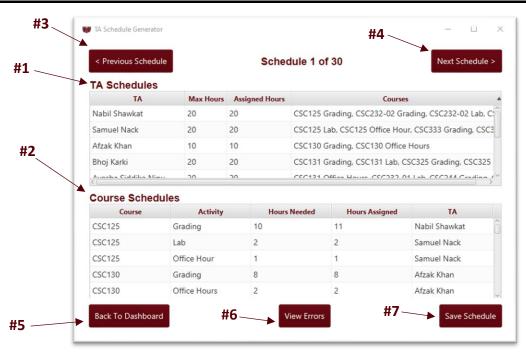
- 1. TA/GA Name Input User input text for the student's name will be entered here
- 2. Max Hours per Week Input User input text for the student's maximum hours of work per week will be entered here
- 3. TA or GA Selection User selection for if the student is a TA or GA only will be made here
- 4. Start and End Time Selection User will select the start and end time for when the student would be unavailable.
- 5. Day of Week Selection This selection works in conjunction with the Start and End Time selection. The user will select the day or days that correspond to the Start and End Time the student is unavailable.
- 6. Add Times Unavailable To add Time Unavailable to the student, select the 'Add' button. To discard the entered information, select the 'Remove' button beside the Time in the Unavailable Times Table.
- 7. Unavailable Times Table Times unavailable previously input for the student will be displayed here.
- 8. Save TA/GA Information and Cancel Buttons To save changes made, select the 'Save TA/GA Information' Button. To discard the entered information, select the 'Cancel' button.

2.4 Viewing Generated Schedules



The View Generated Schedules scene is where the schedules generated based on user input will be displayed after the schedule generation is done. From the View Generated Schedules scene, you can cycle through the schedules, Save/Export a selected schedule, and View the Errors that could impact classes due to over/under assigned TA/Gas.





- 1. TA Schedules Table The schedules for TA/GAs are displayed here with each TAs assigned course activities, Max Hours, and Assigned Hours
- 2. Course Schedules Table Each course activity is listed here with the Hours Needed, Hours Assigned, and the assigned TA or GA for the activity
- 3. Previous Schedule Button To cycle through to the previous schedule hit the '< Previous Schedule' button
- 4. Next Schedule Button To cycle through to the next schedule hit the '> Next Schedule' button
- 5. Back To Dashboard Button In order to go back to the Dashboard press the 'Back To Dashboard' button
- 6. View Errors Button To view the errors that occurred during schedule generation that could potentially affect a class/scheduling such as a course activity being over or under assigned hours
- 7. Save Schedule Button To export schedules to be edited along with viewed later, pressing the 'Save Schedule' button proceeds to save the file with the corresponding schedule ranking number

2.5 Tips

Tip #1 – If TimeBlocks for a Course Activity or TA/GAs Time Unavailable do not match up exactly under or over-estimate the time accordingly (i.e., if a TA is unavailable from 2:00pm-3:05pm due to a class, include time for transportation and over-estimate the time as 3:15pm or 3:30pm)

Tip #2 – If a Course has multiple sections such as CSC131 taught Clif and CSC131 taught by Boomer, including a '-' and section number can help in identifying the different course sections easier, Ex.



Tip # 3 – Each time schedules are generated there is a chance a more accurate schedule could be generated in a later generation. So, generating multiple schedules and saving each to compare later may result in a 'better' schedule

Tip # 4 – Not to include Office Hours as a Course Activity if the time is to be shared among multiple Courses

Tip #5 – When viewing Generated Schedules, the schedules will automatically cycle (i.e., when going from Schedule #30 to Schedule #1 and vice-versa)

Tip #6 – If a singular TA is required for multiple Course Activities then combine the activities (Ex. Lab and Grading being combined to 'Lab & Grading' or 'Lab+Grading')

Tip #7 – Returning to the Dashboard after viewing Generated Schedules will clear the currently Generated Schedules and generate new schedules when the 'Generate Schedules' button is clicked

Tip #8 – The application will only save data that has been successfully 'Saved' so make sure to select 'Save' when entering information before closing the application