

STARFLEET ACADEMY REGISTRATION SYSTEM

User Manual **FOR** **Web Based Registration System**

SYSTEM DESIGN AND IMPLEMENTATION

CS 5510

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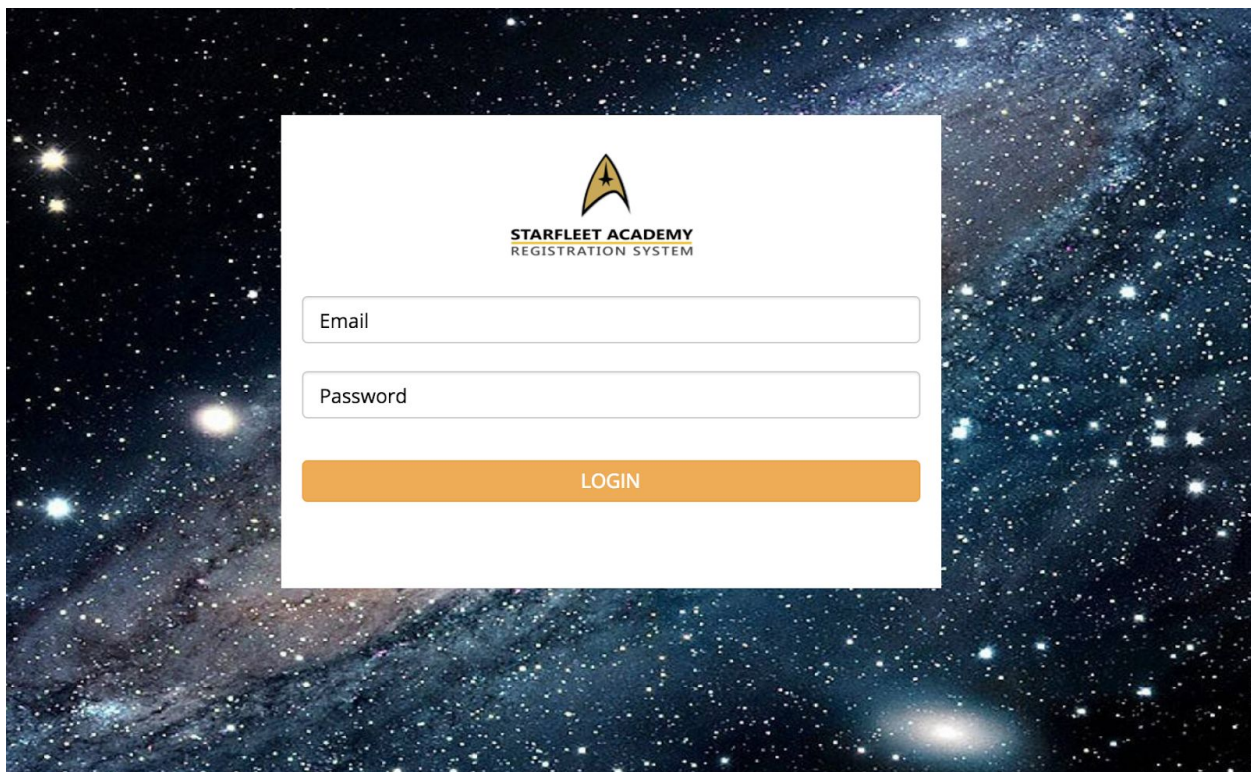
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Login Function

Across the main navbar which is visible on every page, you will see a button allowing a registered user to login to the main system.



Upon clicking on this button, they will be redirected to a login form.

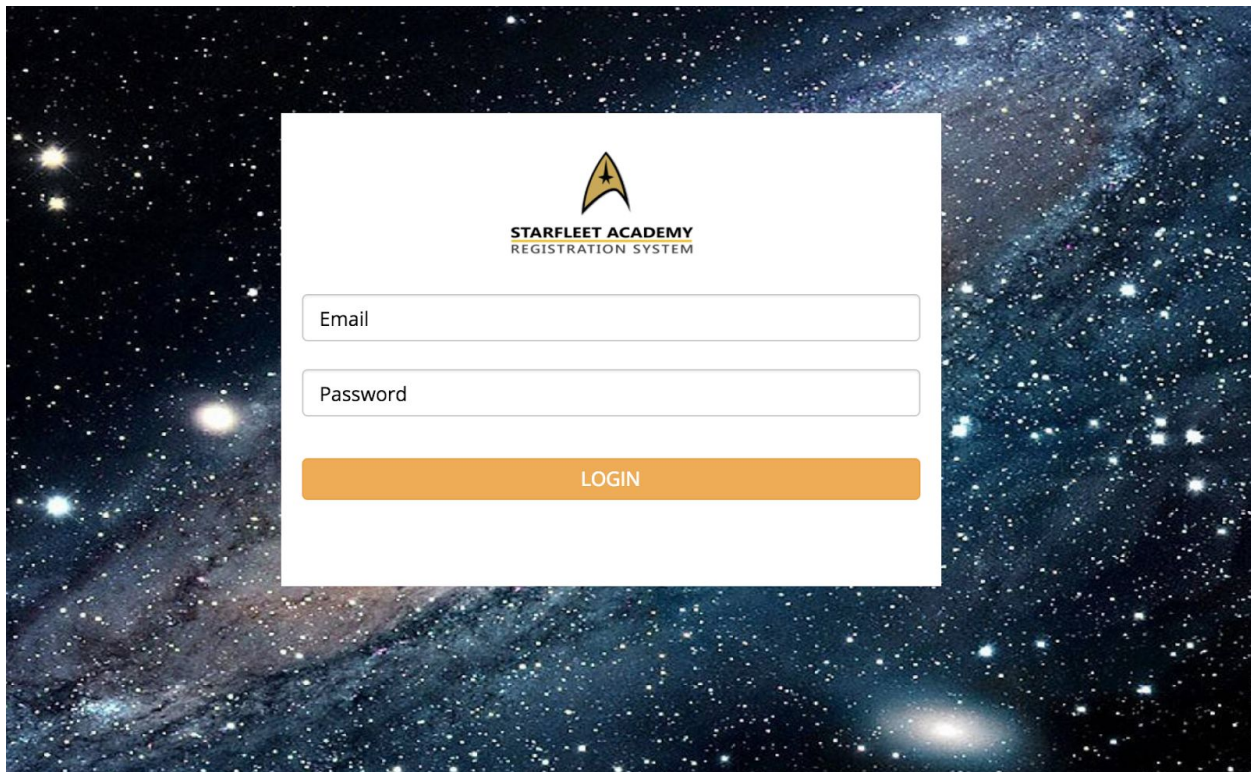


At this page, the user is required to enter their email address and password to login to the system. Upon a successful login, the user will be redirected to their current registered role in the system. I.e. Student, Admin, Faculty, or Researcher.

Logout Function



If the user wants to exit from their account, the user should click on the logout button to do so. After clicking the button, the user will be redirected to the login page.



At this page, the user can log back in or another user can log in.

Home Function



If the user is on any other page than the home page, the user can easily return back to the homepage by clicking on the home button.



STARFLEET ACADEMY COLLEGE COURSE REGISTRATION SYSTEM

ADMISSIONS

The minimum high school requirements for starfleet admission are outlined below. These requirements apply to all students who are interested in pursuing a degree at Penn State. Depending upon what type of applicant you are, you may also have to meet additional requirements. Please review all applicable requirements prior to applying for admission.

4 year Degree
2 year Degree

The high school requirements apply to all students interested in pursuing a degree at Penn State. Based on your applicant type, you may also have to meet additional requirements. Please review all requirements prior to applying for admission.



After clicking the home button, this will be the page that the user lands on.

Course Catalog Function



The course catalog button will take the user to a page where the user can view all of the information about the school from the year 2016 - 2018. It gives information about all of the courses available, academic calendar, degree audit, transcript, academic policies, support facilities, departments, and a lot more.



This is the first page the user will see when the user clicks on the course catalog button. The course catalog has 252 pages in total of information about the school.

Master Schedule Function



When the user clicks on the master schedule, it takes the user to a page where the user can search for any course.

This form requires the user to fill out any one of these fields. If no fields are filled out, the user will see all the current sections for this semester.

CLASS SCHEDULE SEARCH

Department

Select A department

Course Number

Course Name

Day

Select A Day

Instructor

Search

Search Results

Admin

If the user is an admin and wants to login to the registration system, the user should go to the login page and enter his or her email and password. When the user enters his or her information, the page shown below will show.

Welcome



Student Actions ▾

Course Actions ▾

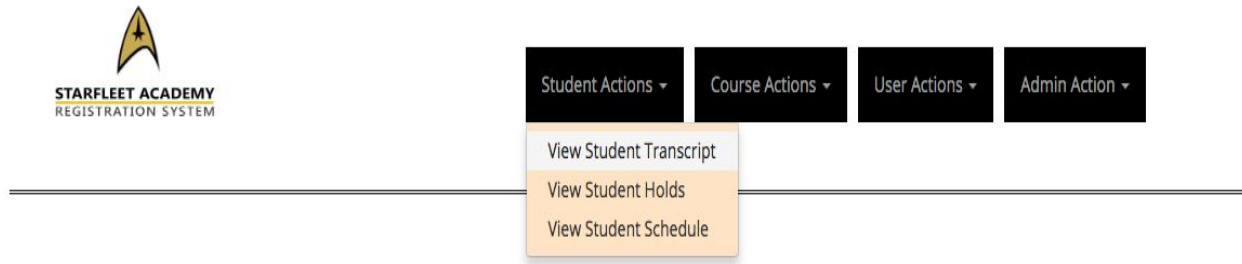
User Actions ▾

Admin Action ▾

The admin has four tabs that he or she can choose from to make an action.

View Student Transcript Function

If an admin wants to view a student's transcript, the admin should go to STUDENT ACTIONS, then click on VIEW STUDENT TRANSCRIPT.



The admin should then enter the student's email and click SUBMIT to view their transcript.

View Student Transcript

STUDENT ACTION

Email

submit

An example of what a student's transcript will look like is shown on page 11.

Transcript For Irman James
Current GPA is: 3.83

Course Name: Advanced Composition
Course Credits: 4
Course Status: Registered
Semester Year: 2018
Semester Season: Spring
Grade Received: -

Course Name: Women & Health
Course Credits: 4
Course Status: Registered
Semester Year: 2018
Semester Season: Spring
Grade Received: -

Course Name: Music of Global Cultures I
Course Credits: 4
Course Status: Registered
Semester Year: 2018
Semester Season: Spring
Grade Received: -

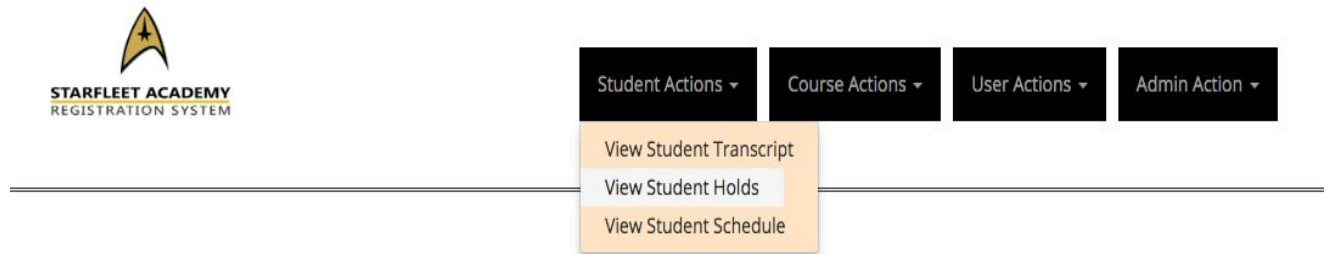
Course Name: Intro to Criminology
Course Credits: 4
Course Status: In progress
Semester Year: 2017
Semester Season: Fall
Grade Received: -

Course Name: Computer Programming II
Course Credits: 4
Course Status: In progress
Semester Year: 2017
Semester Season: Fall
Grade Received: -

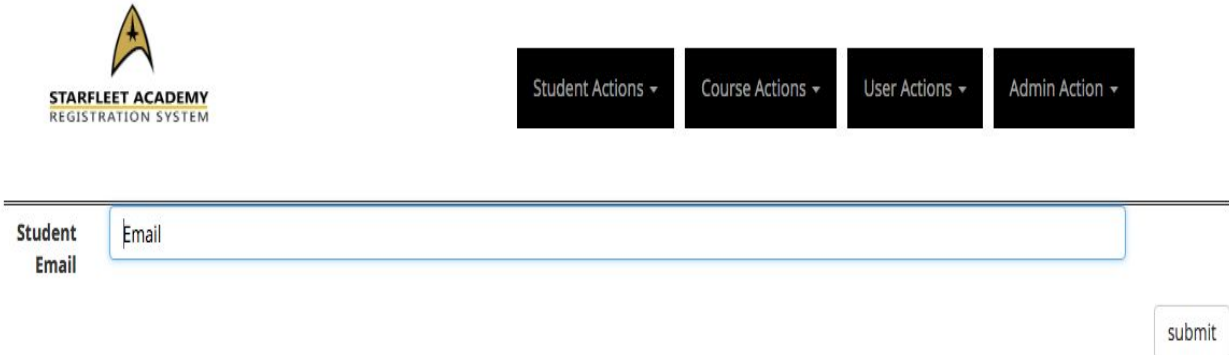
Course Name: World History I: Non-Western
Course Credits: 4
Course Status: In progress
Semester Year: 2017
Semester Season: Fall
Grade Received: -

View Student Holds Function

When an admin wants to view a student's holds, the admin should hover the pointer to STUDENT ACTIONS, then click on VIEW STUDENT HOLDS.



After clicking on VIEW STUDENT HOLDS, a form will occur where the admin can enter the student's email.



The screenshot shows the Starfleet Academy Registration System logo on the left. On the right, there are four black buttons with white text: 'Student Actions', 'Course Actions', 'User Actions', and 'Admin Action'. Below these buttons, there is a form with a label 'Student Email' on the left and a text input field on the right. The input field contains the text 'Email'. To the right of the input field, there is a 'submit' button.

When the admin enters the student's email, the admin should click submit. After, a page with all of the students holds will occur.

An example of how the holds for a student will show.

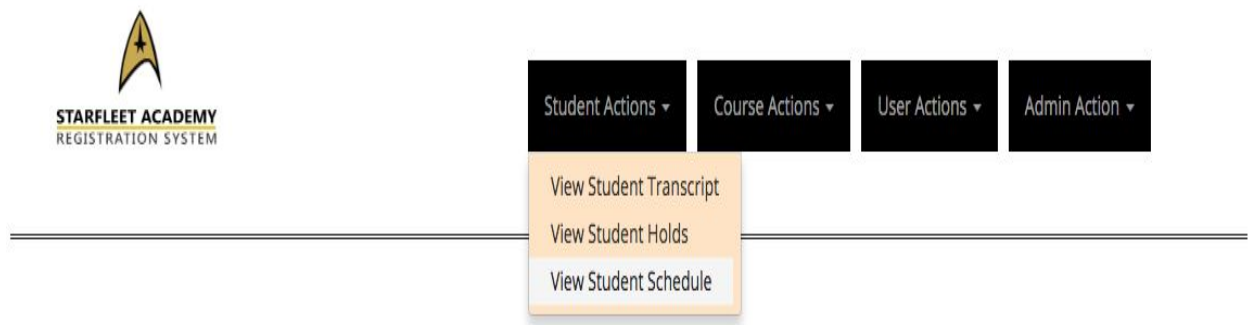
Holds for Irish James	
Hold name: Unpaid Parking Ticket	Remove Hold

There is a button available for the admin to remove the hold on a student's account if the hold does not apply anymore or if the student has satisfied the requirements for the hold to be removed. After the admin clicks the button REMOVE HOLD, the message "HOLD REMOVED" will show.

View Student Schedule Function

If the admin wants to view a student's schedule, the admin goes to STUDENT ACTION, then click on VIEW STUDENT SCHEDULE.

After, the Admin or Faculty member will see a form that takes in a user email as input.



View Student Schedule

STUDENT ACTION

Email

submit

After the user clicks SUBMIT, the student's schedule will be displayed.

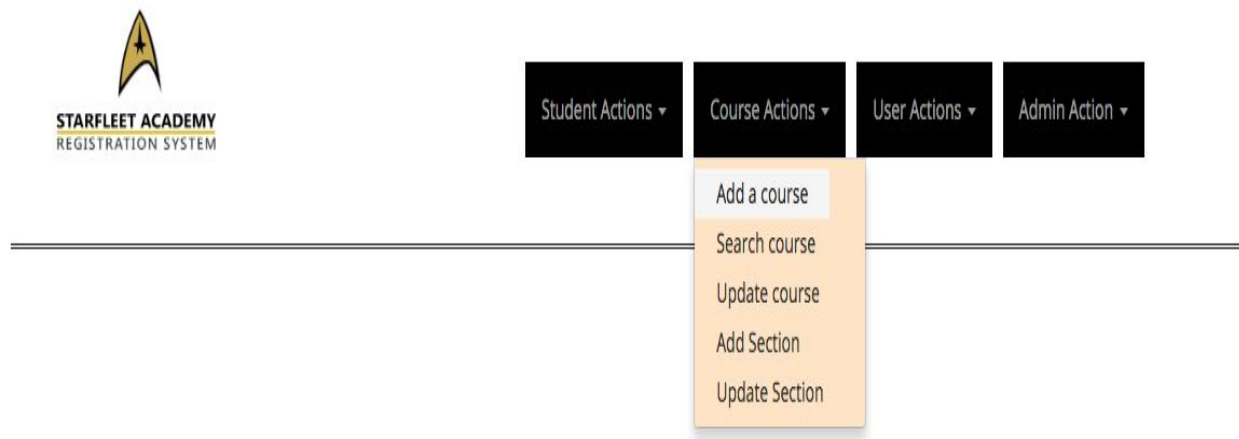
Course Name: Computer Programming II
Course Credits: 4
Room Number: C230
Building Name: The Academy
Time: 3:50 PM - 5:20 PM
Meeting Days: MW
Professor: Mikael - Tyson

Course Name: Chemistry II
Course Credits: 4
Room Number: C260
Building Name: The Academy
Time: 9:40 AM - 11:10 AM
Meeting Days: MW
Professor: Blake - Weller

Course Name: Spanish I
Course Credits: 4
Room Number: C270
Building Name: The Academy
Time: 11:20 AM - 12:50 PM
Meeting Days: TR
Professor: Jada - Campbell

Add a Course Function

When an admin wants to add a course, the admin should go to COURSE ACTIONS then click on ADD A COURSE.



The admin should then fill the form with the Course Name, Course Credits, Course Description, and Department Name. After everything is filled, the admin should click the submit button to finish adding a course.

ADD COURSE

Course Name

Course Credits

Course Description

Department Name

submit

Adding Course Prerequisites

After the admin clicks SUBMIT, a new form will appear and the admin will be required to choose a prerequisite for the new course. After choosing the prerequisite, the admin should click ADD COURSE. The course name as well as the course ID will be added to a table for viewing. The admin can continue adding courses because some courses have many prerequisites. When the correct courses are added to the table, the admin can click the 'Submit' button and the new course and its prerequisite will be created in the database. If the admin makes a mistake while adding the prerequisites, the admin should click RESET and the information will be deleted and they can restart the process.

ADD COURSE

Course Name

Calculus III

Course Pre-Reqs

Calculus II

Reset

Add Course

Course ID

Course Name

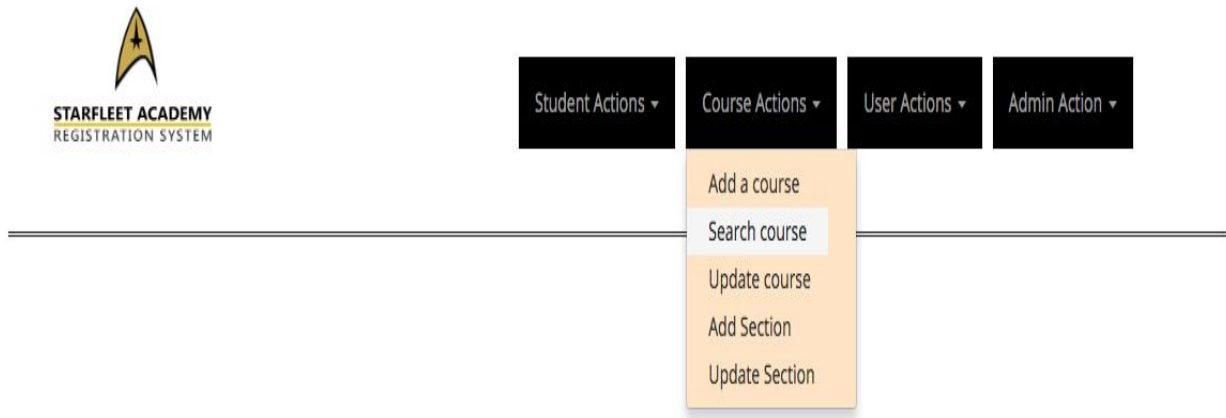
41

Calculus II

submit

Search Course Function

If an admin wants to search for a course, he or she should go to COURSE ACTIONS then click on SEARCH COURSE.



It takes the admin to a page where the admin has to fill out the fields with a department dropdown menu. After the selecting the department, a table will be populated with all the courses for that department.

SEARCH COURSE

Course Subject

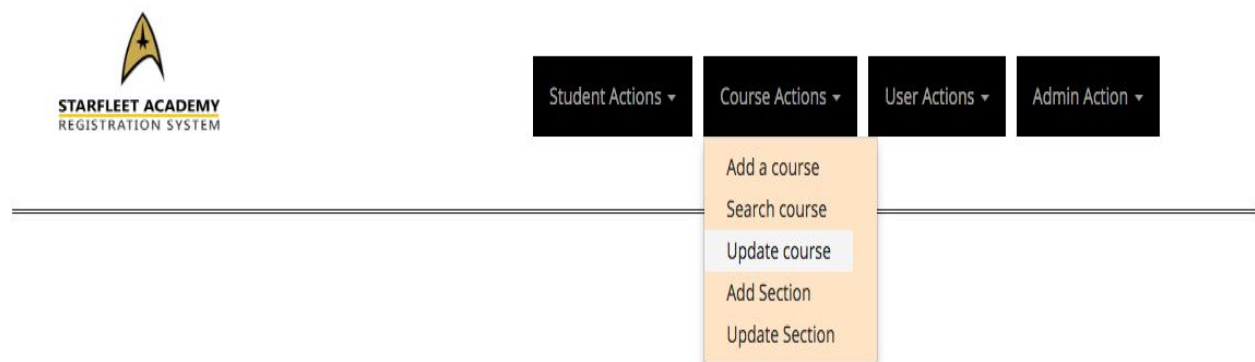
Math

Click on the course you want to view!

Course ID	Course Name
1	Warp Field Mechanics
8	Calculus III
32	Probability and Statistics
41	Calculus II
42	Calculus I

Update Course Function

When an admin wants to make changes to a course, the admin should first search for the course and select on the course he wants to update. The using the search course function is explained on page 19.



The user is then allowed to enter the new course information. Fields that are not filled out will be left with their previous values.

Course Pre-Reqs Calculus I

Course Name

Calculus II

Course Credits

4

Course Description

Level II Calculous Course

Update Course

Add Section Function

If the admin wants to add a section to a course, the admin should go to COURSE ACTIONS then click on ADD SECTION.



Student Actions ▾

Course Actions ▾

User Actions ▾

Admin Action ▾

Add a course
Search course
Update course
Add Section
Update Section

This will lead to a page where the admin can fill out the fields: Course Section Number, Course Subject, Course Name, Faculty Name, Time Slot, Building Number, Room Number, Semester, and Day. If there is a specific time that is not listed but an admin wants to add, the admin can just click on ADD NEW TIME. It will have a Start Time and an End Time to fill, then he or she should click ADD TIME to successfully add that new time.

ADD SECTION

Course Section Number

Course Subject

Course Name

Faculty Name

Time Slot

DON'T SEE THE TIME YOU WANT?

[Add New Time](#)

Add New Time

Start Time:

--:-- --

End Time:

--:-- --

Add Time

Building Number

The Academy

Room Number

Number: B100-- Capacity:100

Semester

Spring

Day

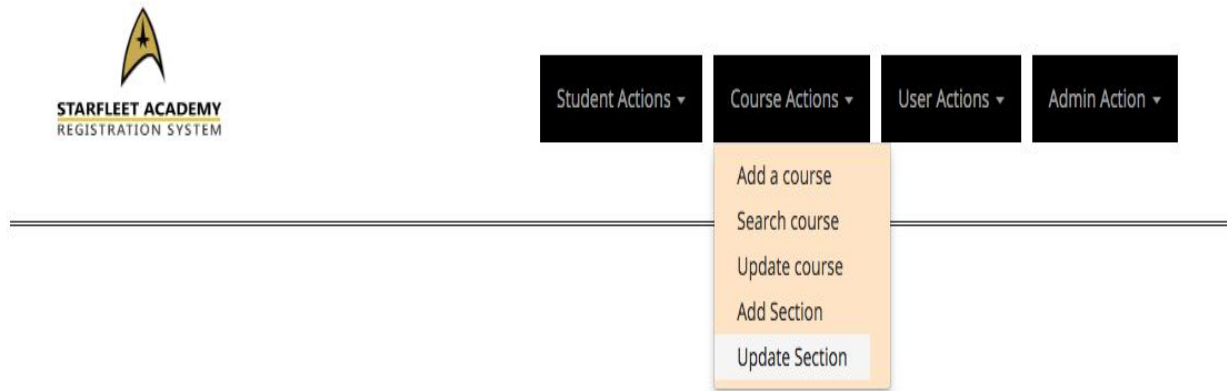
MW

Submit

After all of the fields are completed, the admin should click on SUBMIT at the bottom of the page so that the new section will be added.

Update Section Function

If the admin wants to make any changes to a section, the admin should go to COURSE ACTIONS then click on UPDATE SECTION.



The first step is to search the master schedule for the course they want to update. If the user is an admin, they will see an 'Edit Section' button next to all the sections.

Search Results


DEPARTMENT:

GENERAL PHYSICS I SECTION 1

Professor: Brandon Sanderson
Credits: 4
Section Capacity: 30
Day: MW
Time: 11:20 AM - 12:50 PM
Location: B100
Building: The Academy
Prerequisites:

Edit Section

The admin will then be able to enter in a new capacity, select a new building, and new room to update the section. The room must not already be occupied and the new section capacity must be smaller than the capacity of the room.



STARFLEET ACADEMY
REGISTRATION SYSTEM

Student Actions ▾

Course Actions ▾

User Actions ▾

Admin Action ▾

Editing Section

Course Name: General Physics I
 Current Building: The Academy
 Current Room: B100
 Current Faculty: Brandon Sanderson
 Current Capacity: 30

New Capacity

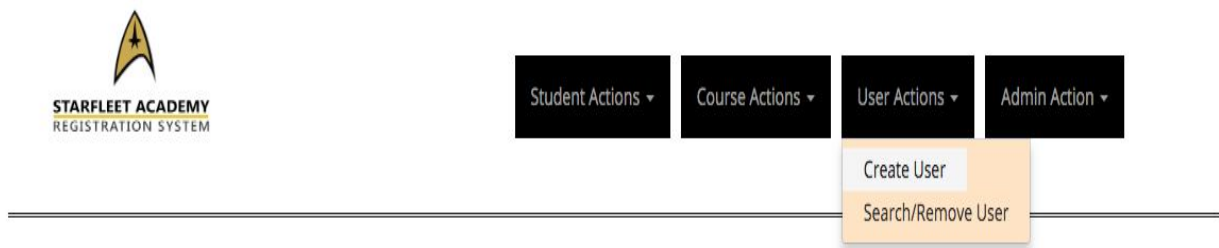
New Building The Academy ▾

New Room Number Number: B100 -- Capacity: 100 ▾

Submit

Create User Function

If the admin wants to create a new user, he or she should go to USER ACTIONS then click on CREATE USER.



Create New User

USER INFORMATION

Email

Password

First Name

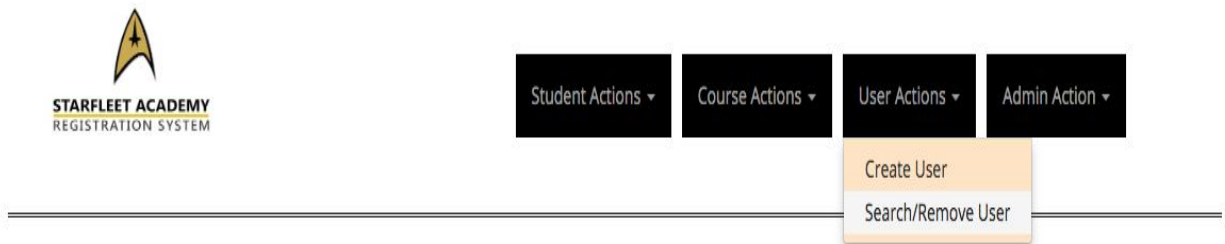
Last Name

User Type Student

submit

Remove User Function

If a User needs to be removed from the system, the admin should go to USER ACTIONS then click on REMOVE USER.



There are 3 fields for the admin to fill out if the admin wants to remove a user. The admin has to know the Email, First Name, and Last Name of the user and enter this information in the fields. After the admin clicks SUBMIT, the user will be removed from the system.

Email

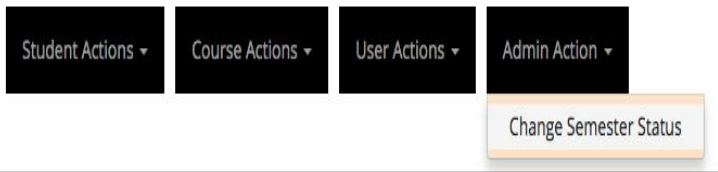
First Name

Last Name

submit

Change Semester Status Function

Throughout every semester admins are able to control temporary periods that open and close which gives the user time to register for classes if he or she is a student or submit grades if the user is a faculty. To start this process, the admin must go to ADMIN ACTION then click CHANGE SEMESTER STATUS.



The admin can choose the status of what semester they want to open or close by clicking the field under SEMESTER and choosing what semester they want. Then they have to choose what period they want to open by clicking on the field under STATUS and choosing.

CHANGE SEMESTER STATUS

SELECT SEMESTER

Semester

- ✓ Spring - 2018 -- Current Status: Closed
- Fall - 2018 -- Current Status: Closed
- Winter - 2018 -- Current Status: Closed
- Summer - 2018 -- Current Status: Closed
- Fall - 2017 -- Current Status: Closed
- Spring - 2017 -- Current Status: Closed
- Winter - 2017 -- Current Status: Closed
- Summer - 2017 -- Current Status: Closed

CHANGE SEMESTER STATUS

SELECT SEMESTER

Semester

Spring - 2018 -- Current Status: Closed

Status

- ✓ Open Course Registration
- Open Grading Period
- Close Grading & Registration Period

After choosing the semester and status, the admin must click SUBMIT to open or close a period.

CHANGE SEMESTER STATUS

SELECT SEMESTER

Semester

Spring - 2018 -- Current Status: Closed

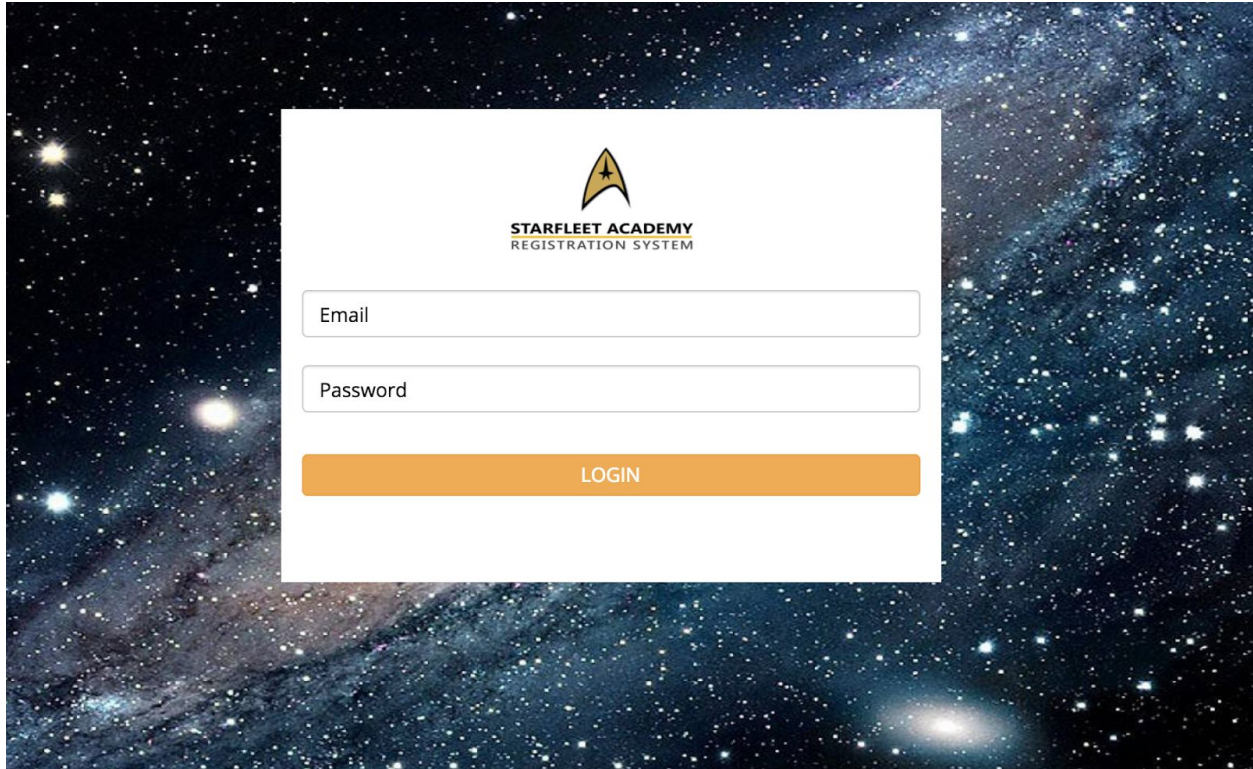
Status

Open Course Registration

submit

Faculty

If a user who is a faculty wants to login, the user should go to the LOGIN page then enter their email and password. Then click LOGIN.



After the faculty logs in, the faculty should see 3 tabs in which they can choose what they want to do.



Submit Grades Function

If the Faculty wants to enter the grades for students, the the faculty should go to GRADING then click SUBMIT GRADES.



Grading ▾

View Student ▾

View Work Schedule ▾

Submit Grades

Then, the user should go to the course they want to give the grades to and click GIVE GRADES.

Course Name: Intro to Criminology
Building Name: The Academy
Room Number: C220
Time: 11:20 AM - 12:50 PM
Meeting Days: MW
Semester 2017
Season Fall

Give Grades

Course Name: Intro to Psychology
Building Name: The Academy
Room Number: C280
Time: 3:50 PM - 5:20 PM
Meeting Days: TR
Semester 2017
Season Fall

Give Grades

The faculty should then enter the letter grades for each student then click SUBMIT.

Give Students Grades for Course Intro to Criminology

Student Info Pat Lagat In progress

Student Info Irman James In progress

Student Info Testy McTest In progress

Student Info Lilli Hai In progress

Student Info Naresh Gupta In progress

Student Info Ashok Basawapatna In progress

View Student Schedule Function

If the Faculty wants to view a student's schedule, he or she should go to VIEW STUDENT, then click VIEW SCHEDULE.



Then the Faculty just has to enter the student's email then click SUBMIT.

View Student Schedule

STUDENT ACTION

Email

View Student Transcript

If a faculty wants to view a student's transcript, the faculty should go to VIEW STUDENT then click VIEW TRANSCRIPT.



Then the faculty should enter the student's email and click SUBMIT.

View Student Transcript

STUDENT ACTION

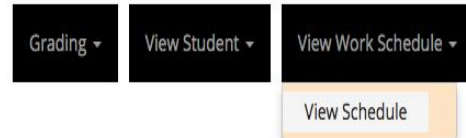
Email

submit

After the faculty clicks SUBMIT, the student's transcript should show.

View Schedule Function

If a faculty wants to view the schedule for the semester, they should go to VIEW WORK SCHEDULE, then click VIEW SCHEDULE.



The faculty's schedule should display.

Course Name: Intro to Criminology
Building Name: The Academy
Room Number: C220
Time: 11:20 AM - 12:50 PM
Meeting Days: MW
Semester 2017
Season Fall

Course Name: Intro to Psychology
Building Name: The Academy
Room Number: C280
Time: 3:50 PM - 5:20 PM
Meeting Days: TR
Semester 2017
Season Fall

Student

When a student logs in to the system, the student should see 5 tabs which are VIEW HOLDS, COURSE ACTIONS, VIEW SCHEDULE, VIEW TRANSCRIPT, and VIEW ADVISOR.

Welcome Irman



View Holds Function

If the student wants to view their holds, the student should click on VIEW HOLDS and they will see their holds.



Holds for Irman James

Hold name: Unpaid Parking Ticket

Register for a Course Function

If the student wants to register for a class, the student should go to COURSE ACTIONS then click on REGISTER FOR A COURSE.



Then the student should enter the fields for DEPARTMENT, COURSE NUMBER, COURSE NAME, DAY, AND INSTRUCTOR. After filling the fields, the student clicks SEARCH.

CLASS SCHEDULE SEARCH

Department

Select A department ▾

Course Number

Course Name

Day

Select A Day ▾

Instructor

Search

If the user is a student, they will see a register button next to the section where they can attempt to register.

Search Results

DEPARTMENT:

GENERAL PHYSICS I SECTION 1

Professor: Brandon Sanderson
Credits: 4
Section Capacity: 30
Day: MW
Time: 11:20 AM - 12:50 PM
Location: B100
Building: The Academy
Prerequisites:

Register

View/Drop Registered Course

If a student wants to view a course or drop the course, the student should go to COURSE ACTIONS then click on VIEW/DROP REGISTERED COURSES.



All of the students courses taken that semester will be shown, along with the course information. There will be a DROP COURSE button next to each course that the student has to click if they want to drop the course.

Course Name: Advanced Composition
Course Credits: 4
Room Number: C230
Building Name: The Academy
Time: 5:30 PM - 7:00 PM
Meeting Days: MW
Professor: Mikael Tyson

Drop Course

Course Name: Music of Global Cultures I
Course Credits: 4
Room Number: P180
Building Name: Ripten Building
Time: 11:20 AM - 12:50 PM
Meeting Days: TR
Professor: Eddard Stark

Drop Course

Course Name: Women & Health
Course Credits: 4
Room Number: P150
Building Name: Ripten Building
Time: 9:40 AM - 11:10 AM
Meeting Days: MW
Professor: Brandon Sanderson

Drop Course

View Schedule Function

If a student wants to view their schedule, they should click VIEW SCHEDULE and their schedule would display.



View Holds ▾

Course Actions ▾

View Schedule ▾

View Transcript ▾

View Advisor ▾

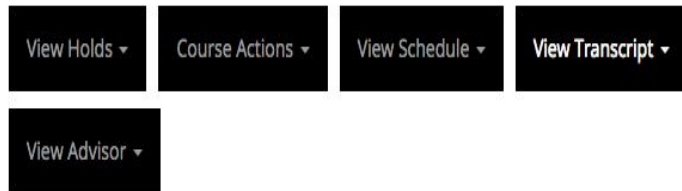
Course Name: Intro to Criminology
 Course Credits: 4
 Room Number: C220
 Building Name: The Academy
 Time: 11:20 AM - 12:50 PM
 Meeting Days: MW
 Professor: Brandon Sanderson

Course Name: Computer Programming II
 Course Credits: 4
 Room Number: C230
 Building Name: The Academy
 Time: 3:50 PM - 5:20 PM
 Meeting Days: MW
 Professor: Mikael Tyson

Course Name: World History I: Non-Western
 Course Credits: 4
 Room Number: C240
 Building Name: The Academy
 Time: 5:30 PM - 7:00 PM
 Meeting Days: MW
 Professor: Eddard Stark

View Transcript Function

If a student wants to view their transcript, they should click VIEW TRANSCRIPT and their transcript would display.



Transcript For Irman James Current GPA is: 3.83

Course Name: Advanced Composition
Course Credits: 4
Course Status: Registered
Semester Year: 2018
Semester Season: Spring
Grade Received: -

Course Name: Women & Health
Course Credits: 4
Course Status: Registered
Semester Year: 2018
Semester Season: Spring
Grade Received: -

Course Name: Music of Global Cultures I
Course Credits: 4
Course Status: Registered
Semester Year: 2018
Semester Season: Spring
Grade Received: -

View Advisor Function

If a student wants to view their advisor, they should click VIEW ADVISOR and their advisor would display.



View Holds ▾

Course Actions ▾

View Schedule ▾

View Transcript ▾

View Advisor ▾

Advising Data

Advisor Name Brandon Sanderson
Room Number: B100
Department: Math
Building Name: MathBuilding
Department Number: 111-222-3333

Researcher

Generate Reports

The researcher is able to view all of the student's grades in a course. When the form is submitted, a csv file will be generated and exported to an excel sheet. The excel sheet will be automatically downloaded by the client's browser.

GRADE CRITERIA

Find all students with a grade at least

A

but not greater than

A

Course

Warp Field Mechanics

ADDITIONAL FILTERS:

Full / Part Time

☐ Full Time

Generate Report