HMC-CourseScheduler

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Main Course Scheduling Script

optimizer.**only_keep_three_credit_classes**()
> Removes all half credit/PE courses.
>
> > **Global Variables Needed:** rawData (dict, optional): Defaults to rawData. possible_courses (list, optional): Defaults to possible_courses.
> >
> > > **Returns** possible three credit courses
> > >
> > > **Return type** list

optimizer.**remove_prev_courses**()
> Removes previously taken courses.
>
> > **Global Variables Needed:** all_prev_courses (dict, optional): user"s previously taken courses. Defaults to all_prev_courses. possible_courses (list, optional): Defaults to possible_courses.
> >
> > > **Returns** removes previously taken courses (all sections) from list of possible courses
> > >
> > > **Return type** list

optimizer.**helper_next_sem_possible_courses_due_to_prereqs**(*lis*)
> Helper function that checks whether the prereqs for a course have been fulfilled
>
> > **Global Variables Needed:** all_prev_courses (set, optional): Defaults to all_prev_courses.
> >
> > > **Parameters** **lis** (*list*) – list of prereqs
> > >
> > > **Returns** True if prereqs have been fulfilled and false otherwise
> > >
> > > **Return type** bool

optimizer.**next_sem_possible_courses_due_to_prereqs**()
> Creates list of possible courses according to previously taken courses and prereqs.
>
> > **Returns** list of possible courses according to previously taken courses and prereqs
> >
> > **Return type** list

optimizer.**course_code_to_variable_and_index**()
> Dictionary that maps complate course code to a variable of the format "xi" where "i" is the variable number
>
> > **Global Variables Needed:** possible_courses (list, optional): Defaults to possible_courses.
> >
> > > **Returns**
> > >
> > > > **tuple of two dictionaries:**
> > > >
> > > > > • course_to_variable_name: dict that maps complete course code
> > > > >
> > > > > to a variable of the format "xi" where "i" is the variable number
> > > > >
> > > > > • course_to_index: dict that maps complete_course_code to int i, where i equals corresponding variable name in course_to_variable_name
> > >
> > > **Return type** tuple

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