# make-syllabus.py

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## Summary

make-syllabus.py parses a YAML file that contains a description of a course syllabus and outputs HTML and iCalendar versions of the syllabus. The HTML output is suitable for including in a course webpage; the iCalendar file could be used by students to "subscribe" via Google Calendar, Apple Calendar, or any other calendar system that supports iCalendar subscriptions.

### Technical Stuff

make-syllabus.py should run on MacOSX and Linux.

#### Installation

Do the following:

- mkdir -p ~/env/makesyllabus
- virtualenv ~/env/makesyllabus
- source ~/env/makesyllabus/bin/activate
- pip install python-dateutil
- pip install pyaml
- pip install jinja2
- pip install icalendar

#### Usage

To use make-syllabus, make sure that you have the correct python environment set up. First, do:

% source ~/env/makesyllabus/bin/activate

Then, for usage instructions, do

% python make-syllabus.py -h

#### Current usage

```
usage: make-syllabus.py [-h] [--holidays HOLIDAYS] --start START --end END
                         --days DAYS --schedule SCHEDULE [--template TEMPLATE]
                    [--ical ICAL] [--header HEADER] [--footer FOOTER]
                    [--starttime STARTTIME] [--endtime ENDTIME]
                    [--course COURSE]
Syllabus generator
optional arguments:
  -h, --help
                        show this help message and exit
  --holidays HOLIDAYS
                        list of holidays, separated by ":"; use # to define ranges
  --start START
                        start date
  --end END
                        end date
                        days of week (0-6, where Monday is 0 and Sunday is 0)
  --days DAYS
  --schedule SCHEDULE
                        schedule file
  --template TEMPLATE
                        jinja2 template file (must specify either this or --ical)
                        icalendar output file (must specify either this or --template)
  --ical ICAL
                        header file to insert before template
  --header HEADER
  --footer FOOTER
                        footer file to insert after template
  --starttime STARTTIME
                        the time at which the class begins; useful for
```

the time at which the class ends; useful for iCalendar

some identifier which will precede the summary in

#### Examples

--endtime ENDTIME

--course COURSE

**Example command-line usage** Produce an iCalendar output file for the syllabus:

iCalendar output

iCalendar output

output

```
% python make-syllabus.py --start "january 8, 2014" --end "april 28, 2014" \
--days 02 --schedule schedules/cosc755-spring2014.yaml \
--ical cosc755-spring2014.ics --starttime 3:30pm --endtime 4:45pm \
--holidays "1/20/2014:2/17/2014:3/8/2014#3/16/2014:4/17/2014#4/21:2014" \
--course COSC755
```

Note that in the above example, the substring "3/8/2014#3/16/2014" is used to denote the dates between 3/8 and 3/16 (INCLUSIVE).

Produce html output file for the syllabus (writes to STDOUT):

```
% python make-syllabus.py --start "january 8, 2014" --end "april 28, 2014" \
--days 02 --schedule schedules/cosc755-spring2014.yaml \
--starttime 3:30pm --endtime 4:45pm \
--holidays "1/20/2014:2/17/2014:3/8/2014#3/16/2014:4/17/2014#4/21:2014" \
--course COSC755 --header templates/html/header.html \
--footer templates/html/footer.html --template templates/html/syllabus.html
```

**Example schedule** Schedules are written in Yaml. Each class is written as a top-level Yaml stanza. For example, the following describes three classes:

```
# COSC755: Surveillance and Censorship
# Spring 2014
-
    description: Course introduction
    note: Project assigned
-
    description: Law and policy
    readings:
        title: "The System of Foreign Intelligence Surveillance Law"
        url: http://papers.ssrn.com/sol3/papers.cfm?abstract_id=586616
-
description: State-sponsored espionage
    readings:
        title: Snowden leaks
        title: "APT1: Exposing One of China's Cyber Espionage Units"
        url: http://intelreport.mandiant.com/Mandiant_APT1_Report.pdf
```

see the schedules/ directory for additional (and more complete) examples.

**Example template** The following is an example HTML template. Templates are processed using the jinja2 template processor.

```
<TR>
{% if noclass == True %}
  <TD></TD>
  <TD>{{ lec_date }}</TD>
  <TD COLSPAN="2" align="CENTER"><I>No class</I></TD>
  <TD></TD>
{% else %}
  <TD>{{ lec_num }}</TD>
```

See the templates/ directory for more complete examples.