

Variables: Each course X that is needed for one to graduate. E.g. CSC110, CSC115, ..., CSC421, ...

The values are triples (term, termslot, timeslot)

Domains: Let d_i be the set of all the possible triples for each course X . The d_i can be constructed by deleting the triples with terms and timeslots that are not offered for a course X and deleting all triples with termslots greater than 4.

For example,

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{
(2016_fall, 1, 08:30-09:20), (2016_fall, 1, 09:30-10:20), ..., (2016_fall, 1, 17:30-18:20),
(2016_fall, 2, 08:30-09:20), (2016_fall, 2, 09:30-10:20), ..., (2016_fall, 2, 17:30-18:20),
(2016_fall, 3, 08:30-09:20), (2016_fall, 3, 09:30-10:20), ..., (2016_fall, 3, 17:30-18:20),
(2016_fall, 4, 08:30-09:20), (2016_fall, 4, 09:30-10:20), ..., (2016_fall, 4, 17:30-18:20),

(2017_spr, 1, 08:30-09:20), (2017_spr, 1, 09:30-10:20), ..., (2017_spr, 1, 17:30-18:20),
(2017_spr, 2, 08:30-09:20), (2017_spr, 2, 09:30-10:20), ..., (2017_spr, 2, 17:30-18:20),
(2017_spr, 3, 08:30-09:20), (2017_spr, 3, 09:30-10:20), ..., (2017_spr, 3, 17:30-18:20),
(2017_spr, 4, 08:30-09:20), (2017_spr, 4, 09:30-10:20), ..., (2017_spr, 4, 17:30-18:20),

...
}
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Constraints:

Let X, Y be two courses (variables) with value (term X , slot X , time X) and (term Y , slot Y , time Y), respectively.

(a) Courses might have prerequisite courses that need to be taken before
 $if(X == Y.prerequisite) \text{ term}X < \text{term}Y$

(b) Some courses are offered in certain terms only
Let L be a list of terms which contains offered courses
 $if(X \text{ is contained in } L)$

(c) We want to take not more than 4 courses per term
 $if(slotX \geq 1 \ \&\& \ slotX \leq 4)$

(d) Time conflicts should be avoided
 $if(\text{term}X \neq \text{term}Y \ \&\& \ \text{time}X \neq \text{time}Y)$