Rules

Last updated: Saturday 19th October 4:19pm Most recent changes are shown in red ... older changes are shown in brown.

[Assignment Spec] [Database] [Rules] [Schema] [Test Cases] [Fixes+Updates] [Extras]

The following table attempts to describe what should happen for every possible case of rule type, min/max values, and academic object group types. The following notes describe some general points relating to table and rule cases.

- the # column indicates how many occurrences of a particular kind of rule are in the database; if the value is zero, the rule type will not appear in the testing database
- the phrase "if not filled to X UOC..." means "after you have considered all completed courses, if the number of UOC allocated to the rule is still less than X UOC ... '
- if the Min value for a valid rule is zero, the rule is automatically satisfied, and will never appear in the TODO list of rules in the virtual transcript
- on allocating subjects to rules:

Max

Group

Type | Min

- o if adding a subject to an LR rule would cause the Max for that rule to be exceeded, then the subject cannot be allocated to any rule
- a subject can be allocated to at most one CC/PE/FE/GE rule, in priority order
- o if there are any LR rules whose group the subject belongs to, it should also be allocated to all such rules, up to the Max for that rule
- if the Group is quoted as "empty", this means that either the Rules.ao group value is null or the corresponding group has zero members
- rules with an empty group are treated specially, as noted under each rule type; some general principles:
 - o if the rule with an empty group has an invalid min/max combination, it is invalid
 - o if it has a valid min/max combination, it is treated as described in the rule
 - o if the rule has no case for an empty group, then the empty group cas is invalid

Notes

71.					
СС	null	null	subjects	0	Invalid rule ignore
СС	X UOC	null	subjects	79	Meaning: complete at least X UOC from subjects in group
					Task D: allocate subjects to rule; if not filled to X UOC, include in TODO
					Task E: if not filled, suggest unused subjects from group
СС	null	YUOC	subjects	0	Invalid rule ignore
СС	X UOC	YUOC	subjects	1171	Meaning: must complete at least X UOC and at most Y UOC from subjects in group
					Task D: allocate subjects to rule up to Y UOC; if not filled to X UOC, include in TODO
					Task E: for each subject in group, if adding subject's UOC would make the rule's allocation exceed Y UOC, then ignore it; otherwise add into the advice array
СС	any	any	empty	0	Meaning: treat as an empty group; same if group is non-null and is empty
	valid UOC	valid UOC			Task D: rule is automatically satisfied
					Task E: ignore (it suggests no subjects to take)
СС	any	any	streams or	0	Invalid rule ignore
			programs		
			1 10 - 3		I .
		<u> </u>			
Туре	Min	Max	Group	#	Notes
Type DS	Min null	Max null		# 1	Notes Meaning: must complete 1 stream from group of streams
			Group		
			Group		Meaning: must complete 1 stream from group of streams
			Group		Meaning: must complete 1 stream from group of streams Task D: not relevant
DS	null	null	Group streams	1	Meaning: must complete 1 stream from group of streams Task D: not relevant Task E: not relevant
DS	null	null	Group streams	1	Meaning: must complete 1 stream from group of streams Task D: not relevant Task E: not relevant Meaning: must complete at least X streams from group of streams
DS	null	null	Group streams	1	Meaning: must complete 1 stream from group of streams Task D: not relevant Task E: not relevant Meaning: must complete at least X streams from group of streams Task D: not relevant
DS	null X	null	Group streams	48	Meaning: must complete 1 stream from group of streams Task D: not relevant Task E: not relevant Meaning: must complete at least X streams from group of streams Task D: not relevant Task E: not relevant

DS	X	Υ	streams	18	Meaning: must complete at least between X and Y streams from group of streams
					Task D: not relevant
					Task E: not relevant
DS	any	any	subjects	1	Invalid rule ignore
DS	null	null	programs	0	Invalid rule ignore
		T			T
Туре	Min	Max	Group	#	Notes
FE	null	null	subjects	0	Invalid rule ignore
FE	X UOC	null	subjects	24	Meaning: must complete at least X UOC from any non-Gen-ed subjects in the subject group
					Task D: allocate subjects to rule; if not filled to X UOC, include in TODO
					Task E: if not filled to X UOC, add as special "(many choices)" item in array
FE	null	YUOC	subjects	0	Invalid rule ignore
FE	X UOC	YUOC	subjects	69	Meaning: must complete at between X and Y UOC from any non-Gen-ed subjects in the subject group
					Task D: allocate subjects to rule up to YUOC; if not filled to X UOC, include in TODO
					Task E: if not filled to X UOC, add as special "(many choices)" item in array
FE	any valid	any valid	empty	0	Meaning: treat as FE rule with group = FREE####
	UOC	UOC			Task D: treat as if one of above with group FREE####
					Task E: treat as if one of above with group FREE####
FE	any	any	streams	0	Invalid rule ignore
			l or		
			programs		
			1		
Туре	Min	Max	1	#	Notes
Type GE	Min null	Max null	programs	# 0	Notes Invalid rule ignore
		null	programs Group		
GE	null	null	Group subjects	0	Invalid rule ignore
GE	null	null	Group subjects	0	Invalid rule ignore Meaning: must complete at least X UOC from Gen-ed subjects in the subject group
GE	null	null	Group subjects	0	Invalid rule ignore Meaning: must complete at least X UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule; if not filled to X UOC, include in TODO
GE GE	null X UOC	null null	Group subjects subjects	0	Invalid rule ignore Meaning: must complete at least X UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule; if not filled to X UOC, include in TODO Task E: if not filled to X UOC, add as special "(many choices)" item in array
GE GE	null X UOC	null null	Group subjects subjects subjects	0 1 0	Invalid rule ignore Meaning: must complete at least X UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule; if not filled to X UOC, include in TODO Task E: if not filled to X UOC, add as special "(many choices)" item in array Invalid rule ignore
GE GE	null X UOC	null null	Group subjects subjects subjects	0 1 0	Invalid rule ignore Meaning: must complete at least X UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule; if not filled to X UOC, include in TODO Task E: if not filled to X UOC, add as special "(many choices)" item in array Invalid rule ignore Meaning: must complete at between X and Y UOC from Gen-ed subjects in the subject group
GE GE	null X UOC null X UOC	null null YUOC YUOC	Group subjects subjects subjects	0 1 0	Invalid rule ignore Meaning: must complete at least X UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule; if not filled to X UOC, include in TODO Task E: if not filled to X UOC, add as special "(many choices)" item in array Invalid rule ignore Meaning: must complete at between X and Y UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule up to Y UOC; if not filled to X UOC, include in TODO
GE GE GE GE	null X UOC null X UOC any valid	null null YUOC YUOC	Group subjects subjects subjects subjects	0 1 0 94	Invalid rule ignore Meaning: must complete at least X UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule; if not filled to X UOC, include in TODO Task E: if not filled to X UOC, add as special "(many choices)" item in array Invalid rule ignore Meaning: must complete at between X and Y UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule up to Y UOC; if not filled to X UOC, include in TODO Task E: if not filled to X UOC, add as special "(many choices)" item in array
GE GE GE GE	null X UOC null X UOC	null YUOC YUOC any valid	Group subjects subjects subjects subjects	0 1 0 94	Invalid rule ignore Meaning: must complete at least X UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule; if not filled to X UOC, include in TODO Task E: if not filled to X UOC, add as special "(many choices)" item in array Invalid rule ignore Meaning: must complete at between X and Y UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule up to Y UOC; if not filled to X UOC, include in TODO Task E: if not filled to X UOC, add as special "(many choices)" item in array Meaning: treat as GE rule with group = GENG#### Task D: treat as if one of above with group GENG####
GE GE GE GE	null X UOC null X UOC any valid UOC	null YUOC YUOC any valid	Group subjects subjects subjects subjects	0 1 0 94	Invalid rule ignore Meaning: must complete at least X UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule; if not filled to X UOC, include in TODO Task E: if not filled to X UOC, add as special "(many choices)" item in array Invalid rule ignore Meaning: must complete at between X and Y UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule up to Y UOC; if not filled to X UOC, include in TODO Task E: if not filled to X UOC, add as special "(many choices)" item in array Meaning: treat as GE rule with group = GENG#### Task D: treat as if one of above with group GENG#### Task E: treat as if one of above with group GENG####
GE GE GE GE	null X UOC null X UOC any valid	null null YUOC YUOC any valid UOC	Group subjects subjects subjects subjects subjects	0 1 0 94	Invalid rule ignore Meaning: must complete at least X UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule; if not filled to X UOC, include in TODO Task E: if not filled to X UOC, add as special "(many choices)" item in array Invalid rule ignore Meaning: must complete at between X and Y UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule up to Y UOC; if not filled to X UOC, include in TODO Task E: if not filled to X UOC, add as special "(many choices)" item in array Meaning: treat as GE rule with group = GENG#### Task D: treat as if one of above with group GENG####
GE GE GE GE	null X UOC null X UOC any valid UOC	null null YUOC YUOC any valid UOC	Group subjects subjects subjects subjects subjects	0 1 0 94	Invalid rule ignore Meaning: must complete at least X UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule; if not filled to X UOC, include in TODO Task E: if not filled to X UOC, add as special "(many choices)" item in array Invalid rule ignore Meaning: must complete at between X and Y UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule up to Y UOC; if not filled to X UOC, include in TODO Task E: if not filled to X UOC, add as special "(many choices)" item in array Meaning: treat as GE rule with group = GENG#### Task D: treat as if one of above with group GENG#### Task E: treat as if one of above with group GENG####
GE GE GE GE	null X UOC null X UOC any valid UOC any	null YUOC YUOC any valid UOC any	Group subjects subjects subjects subjects empty streams or programs	0 1 0 94 0	Invalid rule ignore Meaning: must complete at least X UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule; if not filled to X UOC, include in TODO Task E: if not filled to X UOC, add as special "(many choices)" item in array Invalid rule ignore Meaning: must complete at between X and Y UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule up to Y UOC; if not filled to X UOC, include in TODO Task E: if not filled to X UOC, add as special "(many choices)" item in array Meaning: treat as GE rule with group = GENG#### Task D: treat as if one of above with group GENG#### Task E: treat as if one of above with group GENG#### Invalid rule ignore
GE GE GE GE Type	null X UOC null X UOC any valid UOC any	null null YUOC YUOC any valid UOC any	Group subjects subjects subjects subjects empty streams or programs Group	0 1 0 94 0	Invalid rule ignore Meaning: must complete at least X UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule; if not filled to X UOC, include in TODO Task E: if not filled to X UOC, add as special "(many choices)" item in array Invalid rule ignore Meaning: must complete at between X and Y UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule up to Y UOC; if not filled to X UOC, include in TODO Task E: if not filled to X UOC, add as special "(many choices)" item in array Meaning: treat as GE rule with group = GENG#### Task D: treat as if one of above with group GENG#### Task E: treat as if one of above with group GENG#### Invalid rule ignore
GE GE GE GE	null X UOC null X UOC any valid UOC any	null YUOC YUOC any valid UOC any	Group subjects subjects subjects subjects empty streams or programs	0 1 0 94 0	Invalid rule ignore Meaning: must complete at least X UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule; if not filled to X UOC, include in TODO Task E: if not filled to X UOC, add as special "(many choices)" item in array Invalid rule ignore Meaning: must complete at between X and Y UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule up to Y UOC; if not filled to X UOC, include in TODO Task E: if not filled to X UOC, add as special "(many choices)" item in array Meaning: treat as GE rule with group = GENG#### Task D: treat as if one of above with group GENG#### Invalid rule ignore Notes Meaning: simply gives some info not a "real" rule
GE GE GE GE Type	null X UOC null X UOC any valid UOC any	null null YUOC YUOC any valid UOC any	Group subjects subjects subjects subjects empty streams or programs Group	0 1 0 94 0	Invalid rule ignore Meaning: must complete at least X UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule; if not filled to X UOC, include in TODO Task E: if not filled to X UOC, add as special "(many choices)" item in array Invalid rule ignore Meaning: must complete at between X and Y UOC from Gen-ed subjects in the subject group Task D: allocate subjects to rule up to Y UOC; if not filled to X UOC, include in TODO Task E: if not filled to X UOC, add as special "(many choices)" item in array Meaning: treat as GE rule with group = GENG#### Task D: treat as if one of above with group GENG#### Task E: treat as if one of above with group GENG#### Invalid rule ignore

Туре	Min	Max	Group	#	Notes
LR	null	null	subjects	0	Invalid rule ignore
LR	X UOC	null	subjects	90	Meaning: must complete at least X UOC from subjects in group
					Task D: allocate subjects to rule; if not filled to X UOC, include in TODO
					Task E: if not filled to X UOC, you may (optionally) add as special "(many choices)" item in the advice array
LR	null	YUOC	subjects	59	Meaning: may not complete more than Y UOC from subjects in group
					Task D: if subject belongs to group and adding its UOC would exceed Max, then don't allocate it to any rule
					Task E: for each subject under consideration, if subject belongs to group and if adding UOC of subject would exceed Y UOC, then do not include subject in advice; the rule itself does not need to appear as a "(many choices)" item
LR	X UOC	YUOC	subjects	9	Meaning: must complete between X and Y UOC from subjects in group
					Task D: allocate subjects to rule; if not filled to X UOC, include in TODO
					Task E: for each subject under consideration, if subject belongs to group and if adding UOC of subject would exceed Y UOC, then do not include subject in advice; the rule itself does not need to appear as a "(many choices)" item
LR	any	any	empty	0	Invalid rule ignore
LR	any	any	streams	0	Invalid rule ignore
			programs		
Туре	Min	Max	Group	#	Notes
MR	null	null	subjects	0	Invalid rule ignore
MR	X UOC	null	subjects	380	Meaning: used as a pre-req for all subjects in a group; must have completed at least X UOC of subjects
					Task D: not relevant
					Task E: cannot enrol in any subject from the group unless X UOC completed
MR	X UOC	null	null	886	Meaning: used as a pre-req for an individual subject; must have completed at least X UOC of subjects
					Task D: not relevant
					Task E: cannot enrol in the subject that has this rule as a pre-req unless X UOC completed
MR	any	YUOC	subjects	0	Invalid rule ignore
MR	any	any	streams	0	Invalid rule ignore
			or programs		
Type	Min	Max	Group	#	Notes
PE	null	null	subjects	0	Invalid rule ignore
PE	X UOC	null	subjects	368	Meaning: complete at least X UOC from subjects in group
					Task D: allocate subjects to rule; if not filled to X UOC, include in TODO
					Task E: if not filled, suggest unused subjects from group



PE	any	any	empty	0	Meaning: treat as an empty group; same if group is non-null and <i>is</i> empty
	valid UOC	valid UOC			Task D: rule is automatically satisfied
					Task E: ignore (it suggests no subjects to take)
PE	X UOC	YUOC	subjects	423	Meaning: must complete at least X UOC and at most Y UOC from subjects in group
					Task D: allocate subjects to rule up to YUOC; if not filled to X UOC, include in TODO
					Task E: for each subject in group, if adding subject's UOC would make the rule's allocation exceed Y UOC, then ignore it; otherwise add into the advice array
PE	any	any	streams	0	Invalid rule ignore
			or programs		
			programo		<u> </u>
Туре	Min	Max	Group	#	Notes
RC	null	null	subjects	61	Meaning: all subjects in group are recommended for students enroled in stream/program
					Task D: not relevant
					Task E: add any not-yet-completed subject from the group into the advice array, unless the subject was rejected based on some other rule (most of the time, these subjects will already have been added to the advice array when other relevant rules were considered)
RC	not null	not null	subjects	0	Invalid rule ignore
RC	any	any	empty	0	Invalid rule ignore
RC	any	any	streams	0	Invalid rule ignore
			or programs		
			<u> </u>	<u> </u>	
Туре	Min	Max	Group	#	Notes
RQ	null	any	subjects	0	Invalid rule ignore
			or streams		
			or programs		
RQ	X UOC	any	subjects	218	Meaning: must have completed at last X UOC of subjects in the group
1.0	7.000	arry	Cabjooto		Task D: not relevant
					Task E: if rule is not satisfied, cannot enrol in subject which has this rule as a pre-req
					Note: any non-null Max value can be ignored for RQ rules
RQ	X	any	streams	0	Meaning: must be currently enrolled in one of the streams in the group
					Task D: not relevant
					Task E: if rule is not satisfied, cannot enrol in subject which has this rule as a pre-req
					Note: any non-null Max value can be ignored for RQ rules
RQ	Х	any	programs	0	Meaning: must be currently enrolled in one of the programs in the group
					Task D: not relevant
					Task E: if rule is not satisfied, cannot enrol in subject which has this rule as a pre-req
					 Note: any non-null Max value can be ignored for RQ rules
RQ	any	any	empty	?	Invalid rule ignore
	<u> </u>				1
Туре	Min	Max	Group	#	Notes
WM	null	null	none	0	Invalid rule ignore
v v IVI	TIUII	l Iuli	TIOTIE	١٠	I IIValiu Tule Ignore



WM	X UOC	null	none	18	Meaning: must complete at least X total UOC
					Task D: not relevant
					Task E: not relevant
WM	null	YUOC	subjects	0	Invalid rule ignore
WM	X UOC	YUOC	subjects	0	Invalid rule ignore
WM	any	any	subjects or streams or programs	0	Invalid rule ignore