[*PERSON*, *MODULE*]

___ *ModuleReg* _____
students : $\mathbb{P}\ PERSON$
degModules : $\mathbb{P}\ MODULE$
taking : $PERSON \leftrightarrow MODULE$
_____

  dom *taking* $\subseteq$ *students*
  ran *taking* $\subseteq$ *degModules*

requires

___ *AddStudent* _____
$\Delta ModuleReg$
$p? : PERSON$
_____

  $p? \notin students$

  $students' = students \cup \{p?\}$
  $degModules' = degModules$
  $taking' = taking$

requires
allows — uses

___ *RegForModule* _____
$\Delta ModuleReg$
$p? : PERSON$
$m? : MODULE$
_____

  $p? \in students$
  $m? \in degModules$
  $p? \mapsto m? \notin taking$

  $taking' = taking \cup \{p? \mapsto m?\}$
  $students' = students$
  $degModules' = degModules$

2

requires
allows — uses