

Classification(name)

Courses(code,name,credit,department)  
department -> Department.abbreviation

Students(personalNumber,name,branchName,programName)  
branchName -> Branches.name  
programName -> Programs.name

IsPrerequisite(code,prerequisite)  
code -> Courses.code  
prerequisite -> Courses.code

HasClassification(name,code)  
name -> Classification.name  
code -> Courses.code

LimitedCourse(code,maximumAmount)  
code -> Courses.code

WaitingFor(code,personalNumber,sinceDate)  
code -> Courses.code  
personalNumber -> Students.personalNumber

CourseCompleted(personalNumber,courseCode,grade)  
personalNumber -> Students.personalNumber  
courseCode -> Courses.code

IsRegisteredFor(personalNumber,courseCode)  
personalNumber -> Students.personalNumber  
courseCode -> Courses.code

AdditionalMandatory(courseCode,branchName,programName)  
courseCode -> Courses.code  
branchName -> Branches.name  
programName -> Programs.name

IsRecommended(courseCode,branchName,programName)  
courseCode -> Courses.code  
branchName -> Branches.name  
programName -> Programs.name

BelongsTo(personalNumber,branchName,programName)

personalNumber -> Students.personalNumber  
branchName -> Branches.name  
programName -> Programs.name

Branches(name,programName)  
programName -> Programs.name

Departments(abbreviations,name)

HostPrograms(abbreviations,programName)  
abbreviations -> Departments.abbreviations  
programName -> Programs.name

## Extras

We've taken the assumption that personal number is a unique identifier. We also have a question regarding whether or not we should have a "BelongsTo" relation? Since we can't find any reference how we're supposed to handle the combined form of "weak entity" and "one or more arrow"? We already somewhat includes the BelongTo when we form "Students".