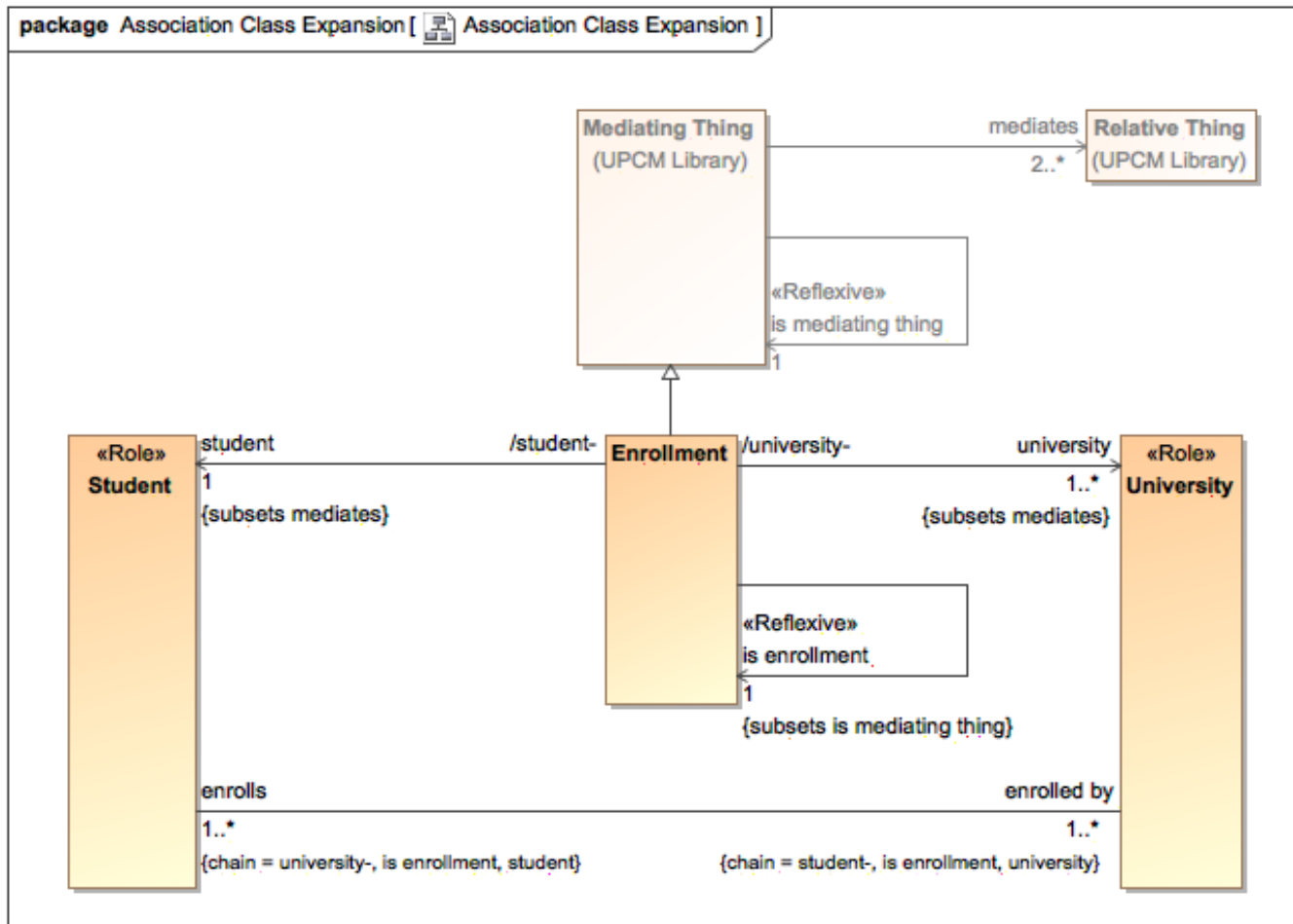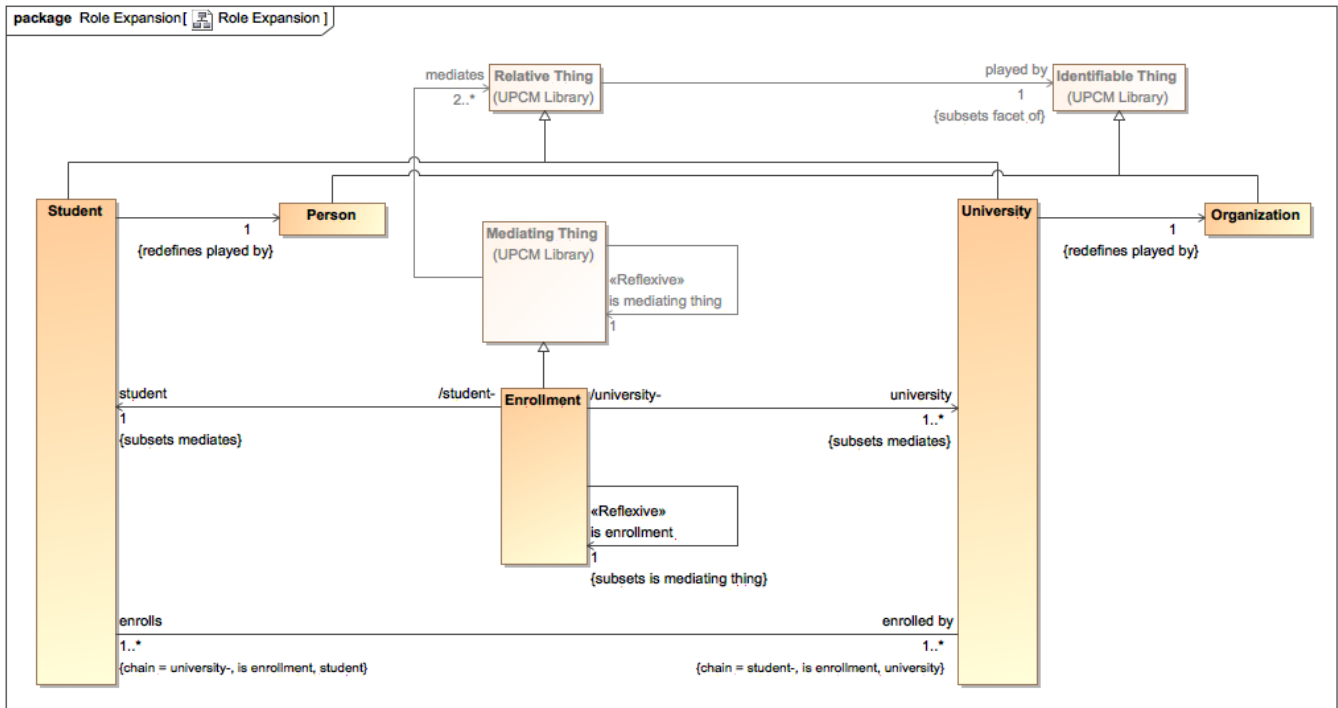# UPCM library in CCM

This section is meant to show the support for Association Classes, Roles, and Phases in the modeling tool's UPCM library. Think of the UPCM library as an expanded view of the diagram using Association Class, Role and/or Phase. Examples of UPCM library in the modeling tool are shown below.

Example of an Expanded UML Association Class Pattern

package Role Expansion [Role Expansion]

- Relative Thing (UPCM Library)
- mediates 2..*
- played by 1 {subsets facet_of}
- Identifiable Thing (UPCM Library)
- Student
- Person
- 1 {redefines played by}
- Mediating Thing (UPCM Library)
- «Reflexive» is mediating thing 1
- University
- Organization
- 1 {redefines played by}
- student /student- 1 {subsets mediates}
- Enrollment
- /university- university 1..* {subsets mediates}
- «Reflexive» is enrollment 1 {subsets is mediating thing}
- enrolls 1..* {chain = university-, is enrollment, student}
- enrolled by 1..* {chain = student-, is enrollment, university}

Example of the «Role» Pattern Expansion