# Optimized Logical Schema

*Version 2*

No tables were broken down during schema normalization, so no reconstruction was nessesary. There is also no string lookup data in table ID attributes, so no changes were needed for physical implementation.

*Tables in grey are outside the scope of Team DOS’ implementation*

**Student**(ID, FirstName\*, MiddleName, LastName\*, Email, Major, Year)

**Course**(Number, Title\*)

**Season**(Order, Name\*, Code\*)

**Term**(ID, Season, Year\*, StartDate\*, EndDate\*)

Season → Season.ID

**Instructor**(ID, FirstName\*, MiddleName, LastName\*, Department, Email)

**Section\_Instructor**(Instructor, Section)

Instructor → Instructor.ID

Section → Section.ID

**Attendance\_Record**(Date, Student, Section, Status)

Student → Student.ID

Section→ Section.ID

**Section**(ID, Term, SectionNumber, Course, CRN, Schedule, Location, StartDate, MidtermDate, EndDate, Instructor1\*, Instructor2, Instructor3)

Term → Term.ID

Course → Course.Number

**GradeTier**(LetterGrade, Section, LowPercent\*, HighPercent\*)

LetterGrade → Grade.Letter

Section → Section.ID

**Grade**(Letter, GPA\*)

**AssessmentComponent**(ID, Section\*, Type\*, Weight\*, Description, PlannedNumberOfItems)

Section → Section.ID

**AssessmentItem**(AssessmentNumber, Component, BasePoints\*, ExtraCreditPoints, AssignedDate, DueDate, Curve)

Component → AssessmentComponent.ID

**Enrollee**(Student, Section, DateEnrolled\*, MajorEnrolled, MidtermGradeWeightedAverage, MidtermGradeComputed, MidtermGradeAwarded, FinalGradeWeightedAverage, FinalGradeComputed, FinalGradeAwarded)

Section → Section.ID

Student → Student.ID

**Submission**(Student, Section, Component,­ SequenceInComponent, BasePointsEarned, ExtraCreditEarned, SubmissionDate, Penalty, InstructorNote)

Student → Enrollee.Student

Section → Enrollee.Section

Component → AssessmentItem.Component

SequenceInComponent → AssessmentItem.SequenceInComponent