**Vert, David**

**Tray**

**ERD**

**Student:**

**[Index/Primary Key] StudentID**

**[Foreign Key] Program**

**Gender**

**CK\_MaleFemale IF M, F, Male, Female THEN VALID**

**HomeState**

**CK\_StateAbbr IF FORMAT = aa THEN VALID**

**Birthdate**

**DEFAULT VALUE (Jan 1st 1901)**

**StudentPhoneNo**

**CK\_PhoneNumber IF FORMAT = nnn-nnn-nnnn THEN VALID**

**NOT NULL**

**StudentLastName**

**NOT NULL**

**Program:**

**[Index/Primary Key] ProgramID**

**Course:**

**[Index/Primary Key] CourseID**

**[Foreign Key] InstructorID**

**[Foreign Key] ProgramID**

**CreditHours**

**CK\_CreditHours IF CreditHours > 0 THEN VALID**

**ProgramCode**

**CK\_ProgramCd IF FORMAT = aaa THEN VALID**

**ClassTime:**

**[Index/Primary Key] ClassTimeID**

**[Foreign Key] CourseID**

**Location:**

**[Index/Primary Key] LocationID**

**[Foreign Key] CourseID**

**Enrolled:**

**[Index/Primary Key] ID**

**[Foreign Key] InstructorID**

**[Foreign Key] StudentID**

**[Foreign Key] CourseID**

**Instructor:**

**[Index/Primary Key] IDNumber**

**InstructorPhoneNo**

**CK\_PhoneNumber IF FORMAT = nnn-nnn-nnnn THEN VALID**

**Each Potential Student Selects None Or Multiple Program(s)**

**Each Potential Program Requires One Or Multiple Program(s)**

**Each Course Requests That There Is To Be One Or More ClassTimes**

**Each Course Announces One Or More Location(s)**

**Each Potential Course Demands There Be None Or Multiple Enrolled**

**Each Instructor Teaches One Or More Course(s)**