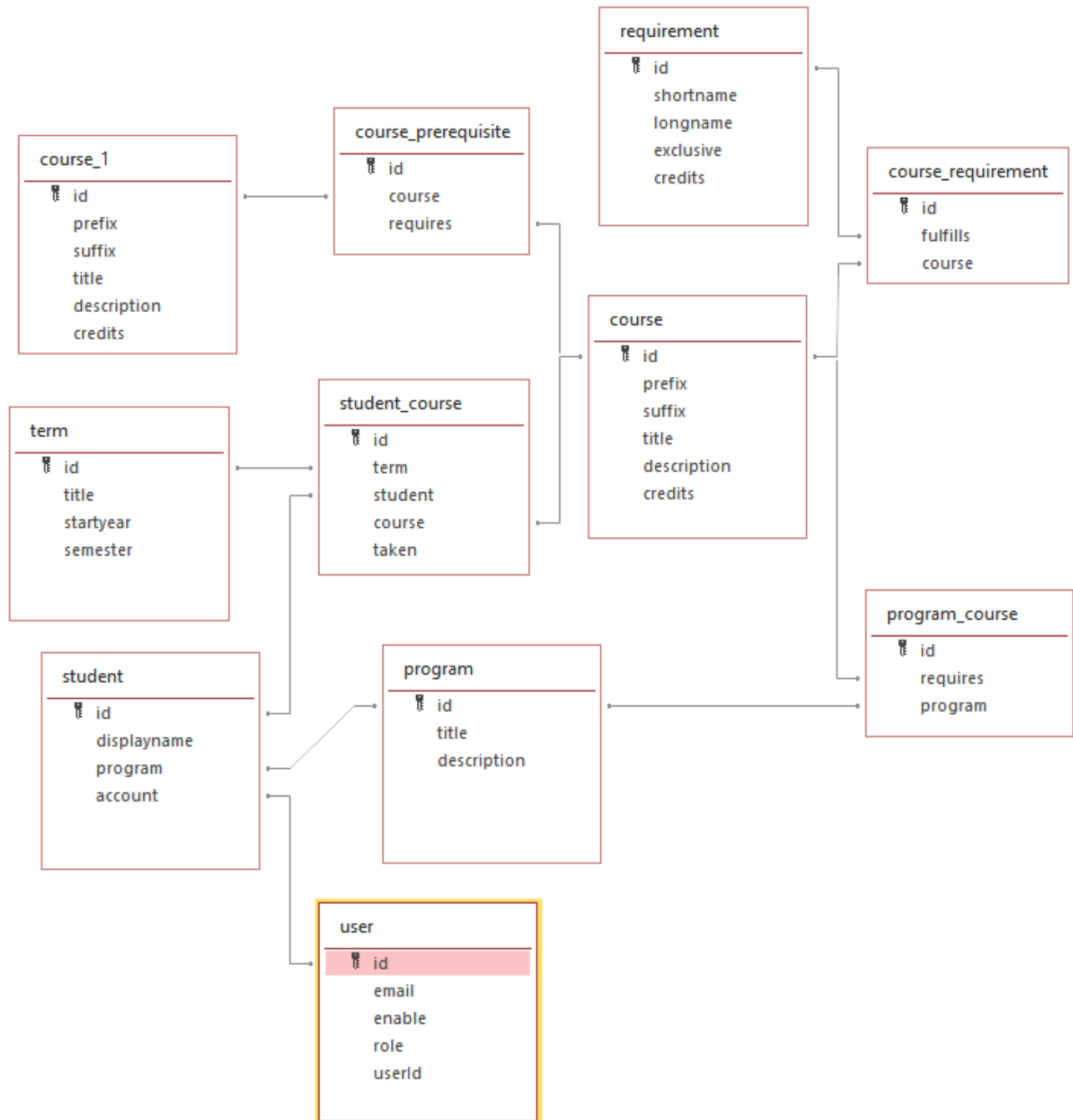


The following is version 2 of the schema proposal.



user — Stores a user. No additions made.

program — Stores an academic program.

- **title: short text** — The name of the program.
- **description: long text** — The description of the program.

course — Stores a course.

- **prefix: short text** — The letter code prefix (i.e., CS, MATH, BIO, ...)
- **suffix: short text** — The course number, which may include "HON" or other suffixes.
- **title: short text** — The friendly name of the class.
- **description: long text** — The course description.
- **credits: integer** — The number of credit hours this course is worth.
 - `credits > 0`

program_course — Relates a program to the courses it requires.

- **program: foreign key [program]** — The program with a required course.
- **requires: foreign key [course]** — The course required by the program.

term — Stores a term.

- **title: short text** — The name of the term.
- **startyear: integer** — The starting year of the academic calendar. (e.g., 2022-2023 → 2022)
 - `startyear > 0`
- **semester: smallint** — An Enum representing the semester.
 - `{ 0: fall, 1: winter, 2: spring, 3: summer }`
 - `semester ≥ 0 and semester < 4`

student — Stores a student.

- **displayname: short text** — The preferred name of the student.
- **account: foreign key [user]** — **Optional.** The Advisor account of the student.
 - `allow null`
- **program: foreign key [program]** — The program this student is enrolled in.

student_course — Relates a student to what courses are on their advising report.

- **student: foreign key [student]** — The student with a planned or taken course.
- **course: foreign key [course]** — The course.
- **term: foreign key [term]** — What term this course is assigned to (for drag & drop).
- **taken: boolean** — Whether the course has been taken yet.

If **true**, the course is marked as completed. If **false**, the course is NOT completed.

requirement — Stores a university requirement category.

- **shortname: short text** — The abbreviation of the category (e.g., SBSC, GLP, RES-A)
- **longname: long text** — The full name of the category (e.g., Arts and Humanities)
- **exclusive: boolean** — Makes this requirement exclusive when set to **true**. If a course has several exclusive requirements, it can only satisfy one of them.
 - Gen-ed categories with this exclusion property include ARHU and CISS. The non-exclusive categories are RES-A, RES-B, and GLP — several may be satisfied by the same course.
- **credits: integer** — How many credit hours of this category are needed to graduate.
 - **credits > 0**

course_requirement — Relates a course to the university requirement categories it satisfies.

- **course: foreign key [course]** — The course satisfying a university requirement
- **fulfills: foreign key [requirement]** — A university requirement this course satisfies.

course_prerequisite — Relates a course to its prerequisite(s).

- **course: foreign key [course]** — The course with a prerequisite.
- **requires: foreign key [course]** — The prerequisite required by the course.