

You're correct that this situation—where students may need to take subjects from another course curriculum to fulfill their requirements—can arise in some educational systems, particularly during pre-advising or academic planning phases. Whether this is officially allowed depends on the policies of the institution, but many colleges and universities do allow **cross-enrollment** or **cross-registration** for certain cases, especially:

1. **The Subject is Not Offered in Their Course Curriculum:**

If a subject required for a student's curriculum isn't part of their own course or department, they can often take it in another department or program where it is offered.

2. **The Subject is a General Education (GE) Subject:**

Subjects like PE, Values Education, or similar general courses are often shared across multiple curricula, so it's logical to allow students to take them from other programs.

3. **Institutional Policies Support It:**

Some institutions encourage flexibility, allowing students to enroll in subjects outside their primary curriculum, especially when prerequisites or scheduling conflicts arise.

What to Do:

We can adjust the system to check other curricula for the missing prerequisite and display this information in the table. Here's how we can do it:

Step 1: Identify Missing Prerequisites

- For each prerequisite in the subject's data, check if the prerequisite exists in the **current student's curriculum**. If it doesn't:
 - Query other **curricula collections** in the database for the prerequisite subject.
 - Gather relevant details, such as the course or department offering it.

Step 2: Display Cross-Enrollment Information

- For subjects where prerequisites are missing from the student's curriculum:
 - Indicate in the table that the prerequisite is unavailable.
 - Show options for cross-enrollment:
 - **Course/Program Offering the Subject**
 - **Availability** (e.g., semester or schedule, if applicable).

Step 3: Allow Cross-Enrollment Options

- If the prerequisite can be taken in another course:

- Add a checkbox or button to let the student opt for cross-enrollment.
- Optionally, display a tooltip or modal with detailed information about the cross-enrollment process.

Proposed Table Example:

For the curated subjects table, we could add additional columns or tooltips to show where a missing prerequisite can be taken:

Subject Code	Subject Name	Lec	Lab	Total Units	Prerequisites	Grade	Remarks	Retake	Available In
PATHFIT 3	Group Exercise	2	0	2	CGEPE2122	N/A	Failed	✓	Course XYZ
ACTDsa213	Data Structures	2	1	3	ACTDms113	2.75	Passed	N/A	N/A

- **"Available In" Column:** Shows the course or department where the missing prerequisite can be taken. If no alternative is found, it shows "Not Available."

Implementation Plan:

1. Modify Prerequisite Check:

- Query all curricula in the database to find the missing prerequisite.
- Store results in an array with the corresponding curriculum details.

2. Update Table Logic:

- When prerequisites are unmet, display the available cross-enrollment options in the new column.
- Add a tooltip or modal with detailed information, if needed.

3. Enrollment Logic:

- Update the enrollment process to account for cross-enrolled subjects.

Suggestions:

1. **Validate with Policies:** Ensure this cross-enrollment process aligns with your institution's rules. It's crucial to verify that students are allowed to take subjects from other curricula.
2. **Highlight Costs or Rules:** Some institutions charge extra fees for cross-enrollment or require additional approvals from advisors or departments.

3. **Communicate Clearly:** Include clear instructions or messages in the UI to help users understand why a prerequisite is missing and how they can resolve it.