

Full Use Case Documentation

1) Add Course — Success

Scenario: Student adds a course during Add/Drop.

Trigger: Start of registration window.

Description: Student selects a course → prerequisites checked → seats verified → tuition validated → registration confirmed.

Actors: Student, System, Registrar, Finance.

Flow:

1. Student opens Manage Courses.
2. System shows schedule.
3. Student selects course.
4. System checks prerequisites.
5. System checks seat availability.
6. Finance verifies payment.
7. System confirms registration.

Rules: Must stay between 4–7 courses.

Exceptions: Seats full, prerequisite fail, payment fail.

2) Drop Course — Minimum Rule

Scenario: Student drops a course but system enforces minimum load.

Trigger: Student selects course to drop.

Description: If drop makes schedule fall below 4 → system blocks.

Actors: Student, System, Registrar.

Flow:

1. Student selects Drop.
2. System checks new load.
3. **alt:** Allowed → drop; Too low → block user.

Rules: Minimum 4 courses.

3) Add Course — Prerequisite Missing

Scenario: Student tries adding a course without prerequisites.

Trigger: Student attempts registration.

Description: System blocks and suggests alternatives.

Actors: Student, System, Registrar.

Flow:

1. Student selects course.
2. System checks prerequisites.
3. **alt:** Passed → register; Failed → block + recommend courses.

4) View Grades

Scenario: Student views semester grades.

Trigger: Student opens View Grades.

Description: System retrieves grades from Registrar.

Actors: Student, System, Registrar.

Flow:

1. Student selects View Grades.
2. System fetches grades.
3. System displays results.

Exceptions: Grades not released.

5) Pay Tuition — Retry (Recursion)

Scenario: Student pays tuition with retry attempts.

Trigger: Student opens Billing.

Description: System calculates balance → attempts payment (up to 3 retries).

Actors: Student, System, Finance, Bank.

Flow:

1. Student opens Billing.
2. System fetches balance.
3. **loop (max 3 retries):** System validatePayment().
4. Student confirms.
5. Bank processes.
6. **alt:** success → confirmation; fail → retry or abort.

