- Sets the boundary of the system
- Shows major events and output (processes; external agents; outputs)
- Does not show data files since they are internal to a process
LEVEL ONE DFD FOR PROCESS 1 - SCHEDULE COURSE

1.1 CHOOSE DAYS & TIMES

1.2 ASSIGN FACULTY

1.3 ASSIGN ROOMS

1.4 SEND UPDATED FINAL COURSE LIST

ACADEMIC DEPT.

COURSES OFFERED

UPDATED INFO COURSE

UPDATED FACULTY INFO

FACULTY LIST

UPDATED ROOM INFO

UPDATED ROOM INFO

AVAILABLE ROOMS

FINAL SCHEDULE

COURSE LIST

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LEVEL ONE DFD FOR PROCESS-2 (ENROLL STUDENT)
LEVEL ONE DFD FOR PROCESS 3 (PRODUCE CLASS LIST)

EXAMPLE - PROCESS DESCRIPTION - 3.1

- Start process create class list
- Get enrollment info for each course from course enrollment file
- Get student details for each student in the class from student file
- Update course enrollment w/ student details by course to create class list
Entity Relationship Diagram for Course Registration System

- **Student**
  - Course
    - **M : M**
- **Faculty**
  - **M : 1**
  - **M : 1**
- **Course**
  - **M : 1**
- **Acad. Department**

### Key
- **1 : M** = 1-to-Many
- **M : M** = Many-to-Many
- **M : 1** = Many-to-One

### Notes
1. **Course** can have many **Students**
2. **Student** can be in many **Courses**
3. **Faculty** can teach many **Courses**
4. **Course** can be taught by only 1 **Faculty**
5. **Acad. Dept.** can have many **Faculty**
6. **Faculty** can belong to only 1 **Acad. Dept.**
7. **Acad. Dept.** can offer many **Courses**
8. **Course** can belong to only 1 **Acad. Dept.**