

```

clc;clear;close all;

N = 10;
M = 5;

x = randi([0, 20], N, M);

course_grades = zeros(1, M);

for j = 1:M
    course_sum = 0;
    for i = 1:N
        course_sum = course_sum + x(i,j);
    end
    course_grades(j) = course_sum / N;
end

disp('Mean grade for each course:');
disp(course_grades);

weights = [3, 3, 1, 2, 3];

gpa = (x * weights') / sum(weights);

disp('GPA of each student:');
disp(gpa);

```

Mean grade for each course:

8.0000 11.0000 9.8000 6.8000 12.5000

GPA of each student:

9.5000

12.9167

6.6667

11.9167

8.3333

5.7500

11.3333

14.5833

8.7500

8.5000

