

# The Potential of *Explorations Science Program* Students

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## 1 Introduction

This report looks at 491 students, between the years 2005 and 2016. During this time interval, we will look at the 491 students who got initially got admitted to the Explorations Science Program, and how well they fared after they got admitted into the Science Program (usually after first year)

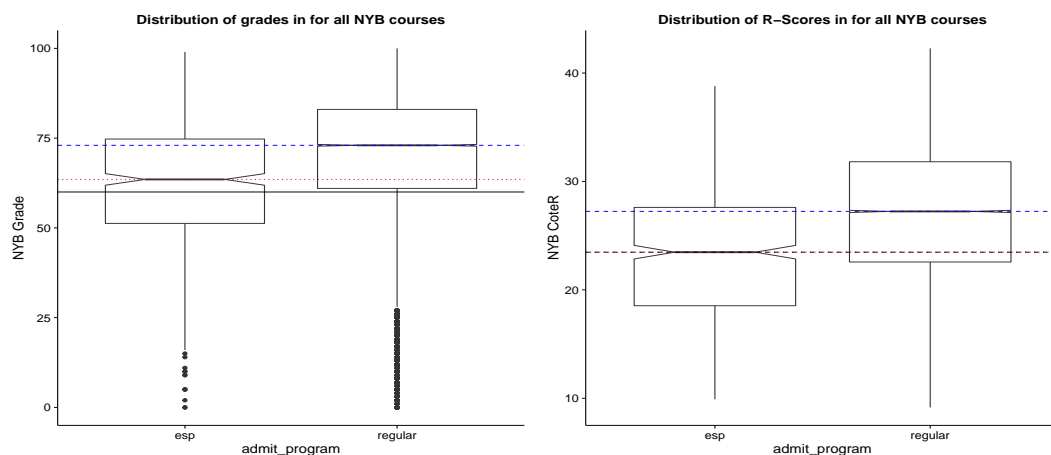
## 2 Comparing Grade Distributions of ESP students with Regular Science students

We begin by looking at all the NYB courses (Math, Chemistry, Physics) ever taken by ESP students, and compare the distribution of the grades they got, as compared to the distribution of grades achieved by all regular science students in their NYB courses.

### 2.1 All courses

Number of student-course pairs for each program

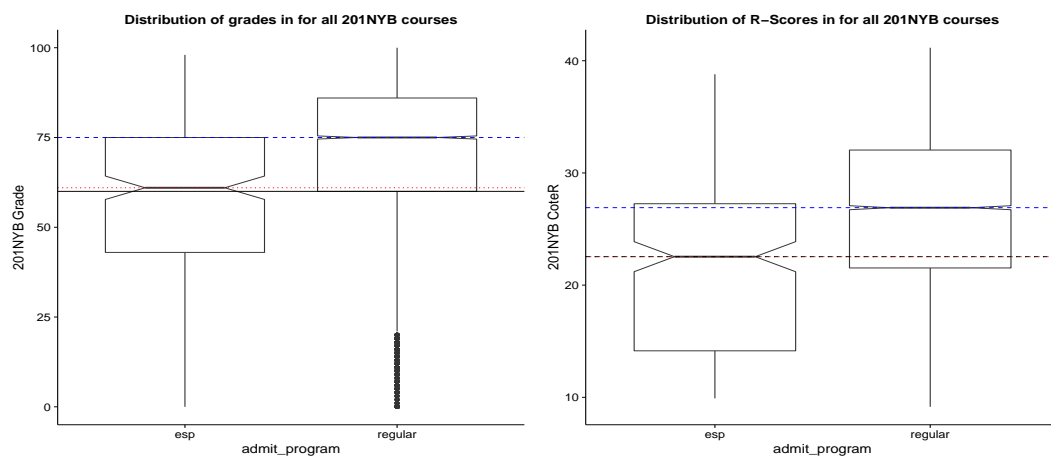
Prog	Seats
esp	606
regular	22529



## 2.2 Math

Number of student-course pair observations for each program

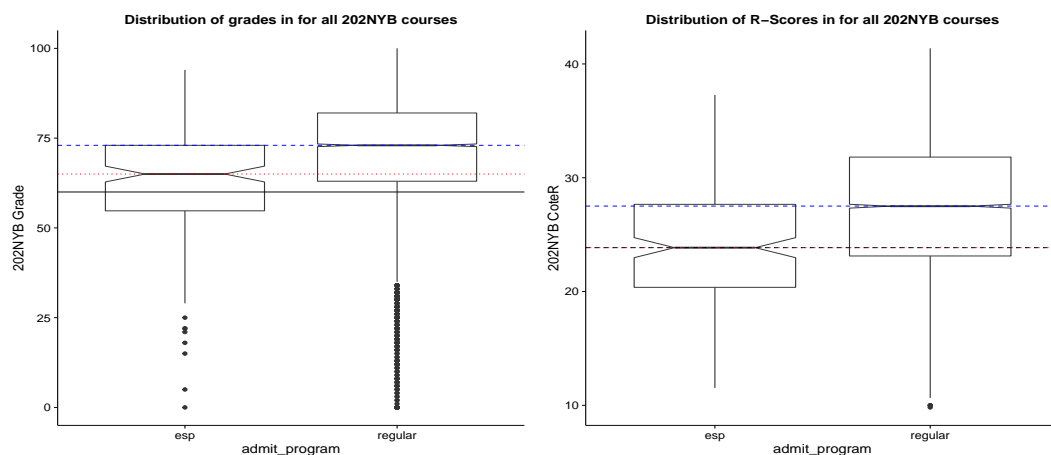
Prog	Seats
esp	274
regular	9573



## 2.3 Chemistry

Number of student-course pair observations for each program

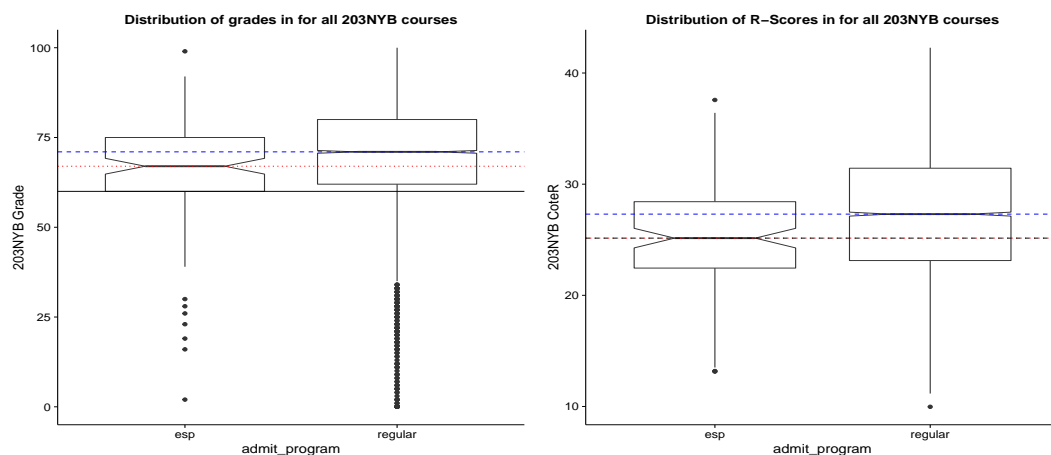
Prog	Seats
esp	201
regular	7002



## 2.4 Physics

Number of student-course pair observations for each program

Prog	Seats
esp	131
regular	5954



## 3 Graduation of ESP students

### 3.1 Dropping Out

What happens to Explorations students as they make their way towards graduation? How does this compare to the Regular Science Program?

Program	ESP	Science
Students Initially Admitted	491	6951
Students Graduated from Any program	252	4885
Current Active Students	126	1254
Students who drop	113	812
Fraction of Students who drop (%)	23	12

### 3.2 Program of Graduation

For the 252 students initially admitted to ESP who have graduated, below is a year by year plot of which programs they graduated from (as long as more than 2 graduated from that program in that year)

