

Do orientation course grades predict future academic performance?

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- Looked at data from MDIA 100 and GS 101 from 2010-2012
- First Time Freshmen
- Tracked students for first four semesters
- IRB Approved
- Both courses are 1st 8 Weeks

- Topics covered:
 - Time Management (developing a weekly schedule)
 - Study Skills/Learning styles
 - Using Compass/Blackboard
 - Campus Resources
 - Communicating etiquette with faculty, staff, and email
 - Building a resume
 - Diversity
 - Experiential learning
 - Major and Graduation Requirements (preparing a 4 year plan)
 - How to Calculate GPA
 - Probation and Honors Programs

MDIA 100

- Looked at students getting a grade of C+ or below
- Matched study population with the average grade of the course, which was a B+
- Did this for MDIA 100 and GS 101
- Entire study had 168 subjects, 84 for each course
- Study looked at the 2010, 2011 and 2012

Process

- We had access to the following information
 - Term and Cumulative GPAs
 - Courses enrolled in along with corresponding grades
 - Race
 - Gender

Data Mined

General Demographics

	Media	Gen St
Underrepresented	16.3%	17.1%
International	7.7%	8%
Women	67.5%	46%
ACT Avg.	26.9	26.9
SAT Avg.	1252.3	1256.3

Demographics for Study Population

White	84	50%
Hispanic	24	14.30%
Black	18	10.70%
Asian	12	7.10%
International	19	11.30%
Multi-Racial	10	5.90%
Unknown	1	0.60%
	168	

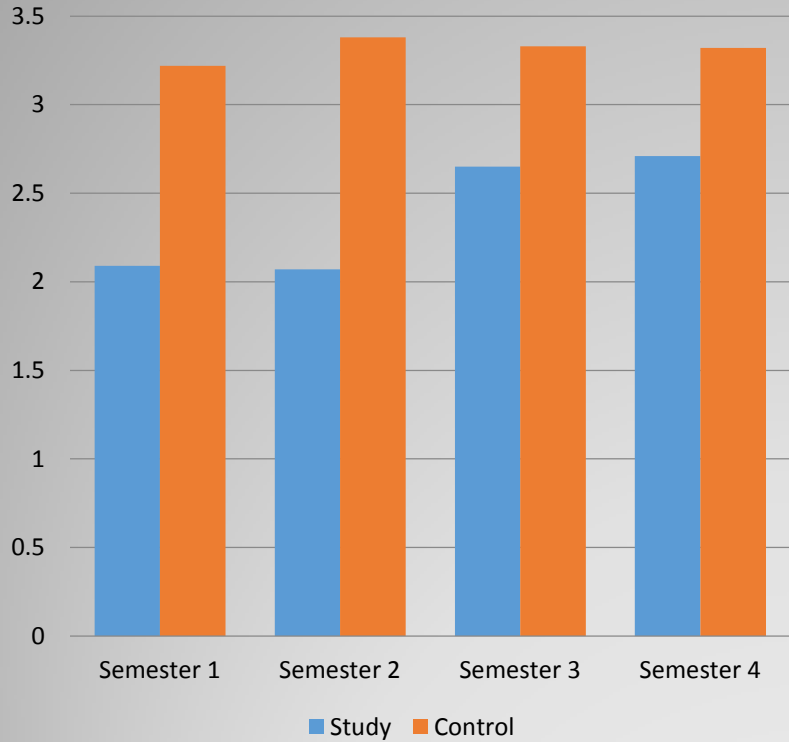
Background

GPA of Control and Study Groups

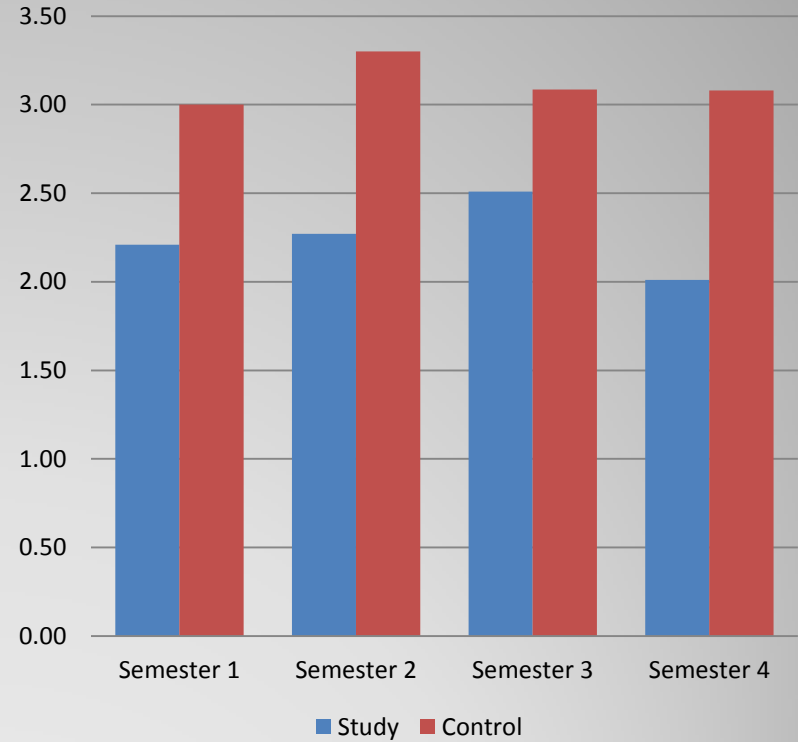
		1st Term GPA	4th Term Cumulative GPA
2010	Study	2.25	2.58
	Control	3.38	3.26
2011	Study	2.13	2.79
	Control	3.11	3.22

GPA

MDIA 2011 Group: Cumulative Comparison



GS 2011 Group: Semester Comparison



GPA Comparison

UNIV 101 Probation Percentages By Race

Student with grade C+ or Below

	Total Numbers	Number on Term Probation	Percentage	Number on Cumulative Probation	Percentage
Females	116	55	47.4%	46	39.7%
Male	296	186	62.8%	149	50.3%
Asian	46	26	56.5%	23	50%
Black/African American	58	46	79.3%	39	67.2%
Hispanic	54	42	77.8%	36	66.7%
International	61	37	60.7%	32	52.5%
Multi-Race	15	7	46.7%	6	40%
NHPI	1	1	100%	1	100%
Unknown	1	1	100%	1	100%
White	176	81	46.0%	60	34.1%
Total	412	241	58.5%	195	48.1%

Probation

Retention Information

Students that Left UIUC

	After 1st Semester	After 2nd Semester	After 3rd Semester	Total
MDIA Study	3	7	1	11
GS Study	3	6	4	13
MDIA Control	2	1	2	5
GS Control	1	1	0	2
Total	9	15	7	31

Student Who Left Campus with GPA Below 2.00

Study	17
Control	1
Total	18

We found through the study that 31 students left for at least one semester out of the total 168 which was 18.5% of the population. Of the 31 students that left 16 were from Media and 15 were from DGS. The students in the study showed that they had a 28.6% chance of leaving of leaving campus, while the control group was 20% less likely to leave campus for any length of time. The majority of these students were leaving after their freshmen year.

- Viewed courses that the students in the study received a C- or below in.
- Looked for trends for specific subjects and courses for students in Media and DGS struggled in
- DGS students ended with 222 courses C-below and Media students had 213

Difficult Courses

- MATH – 36
- PSYC – 28
- CHEM – 24
- ECON – 22
- MACS – 16
- ADV – 13
- CMN – 13
- ANTH – 12
- SPAN – 12
- RHET – 12
- CHLH – 11
- JOUR – 11
- PS – 11
- GEOL - 10

Top Subjects Struggled With

- PSYC 100 – 20
- ECON 103 – 12
- CHEM 102 – 11
- MATH 220 – 9
- CHLH 206 – 7
- ECON 102 – 7
- MACS 104 – 7
- RHET 105 – 7
- SPAN 122 – 7
- ADV 300 – 6
- LER 100 – 6

Top Courses Struggled With

- First term correlation between grade and GPA : 0.71
 - R-Squared value of .50
- UNIV 101 grade and 4th semester grades: correlation value is 0.65
- The correlation between first 1st term and 4th term is 0.87
- what you get your UNIV 101 class strongly correlates with 1st semester GPA
- First term GPA term strongly suggests how students going to perform the next 3 semesters

Correlation for Study (N- 168)

- Correlation for first term GPA was 0.61.
 - R-Squared value of .37, which means that 37 percent of the variance in one variable is explained by the other
- There's also a strong correlation between 101 grades and 4th semester grades. That correlation value is 0.59
- Again, this suggest that first term GPA dictates how the student will perform the next 3 semesters
- Clearly, the correlation analyses showed that the UNIV 101 grade was a significant predictor of cumulative GPA

Correlation for all Students (N-2084)

- Pay attention to classroom attendance
- Set assignments that require planning and preparation
- Create a time management assignment and assess it for effort and realism
- Have students research about their major and college by utilizing different resources
- Utilize online aspects for assignments and information
- Provide significant early graded feedback

Suggestions for UNIV 101

- Reviewing the types and timing of assignments for MDIA 100
- Providing resources for time management and/or study skills by utilizing campus or college resources
- Red Flagging students who struggle in MDIA 100
- Steering students away from courses with a high chances of lower scores if possible
- Review student data to graduation

Moving Forward

- Associate Dean Dr. Julian Parrott
- Division of General Studies, specifically Keith Marshall
- Division of Management Information
- IRB

Shout Out of Thanks to:

Questions?