

Psychology 1101: What Do You Find When You Redesign?

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2016: "Knighted" for the G2C Mission

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G2C Mission: Reduce the DWF Rates in PSYC 1101 (with the help of our friends!)





Guiding Principles of Successful Course Redesign (National Center for Academic Transformation)

- Encourage active learning
- > Provide students with individualized assistance
- Include on-going assessment and prompt (automated) feedback

Redesign Plan

> De-emphasize traditional lecture delivery format

- Use in-class activities at least one per unit to encourage and enhance student engagement and understanding
- > Use active, learner-centered, web-based program -Learning Curve
 - Gives individualized assistance, ongoing assessment, prompt automated feedback

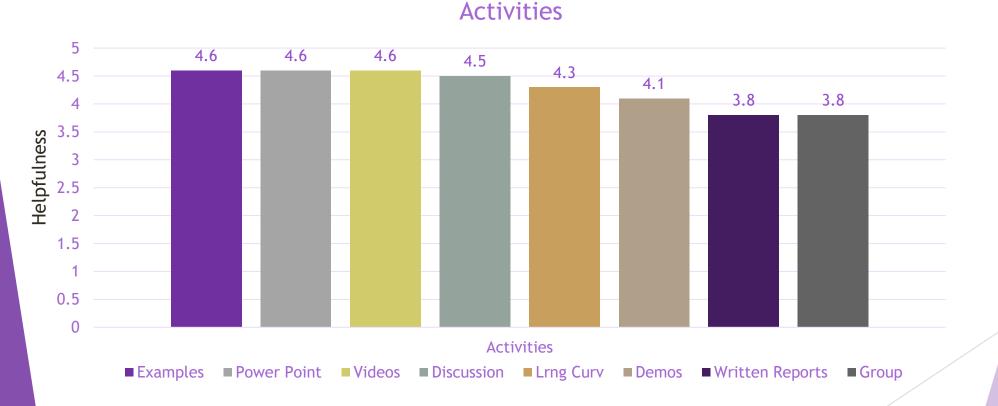
> More affordable textbook

Henrique (2018) studied 7,992 students over 13 years - the most "striking finding was the steady increase (since 2008-2009) in the proportion of students who believe it should not be necessary to read the textbook in order to succeed in the class."

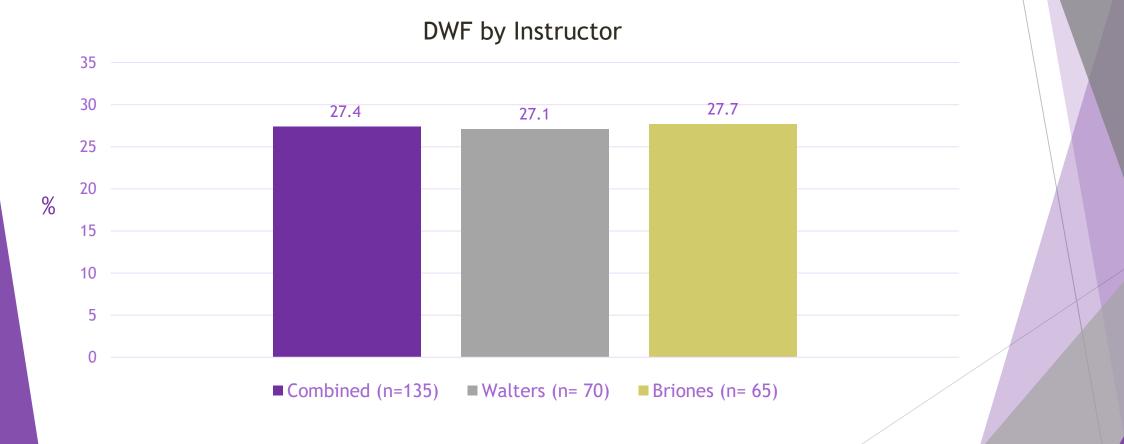
Sample Activities and Supplemental Materials

- First Day of Class Icebreaker
- Learning Curve
- > Group Activities
- Class Demonstrations (e.g., Classical Conditioning, Memory)
- > Big 5 Personality Inventory
- Class Discussion
- > Outline / Power Points
- In-class Videos
- Extra Examples by Instructor

Mean Helpfulness Ratings of Activities







DWF Rates Before and After Redesign



■ Before (n= 135) ■ After (n= 132)

Number of Students Earning DWF's X²(3)=.526, p=.47, N=267

Contingency Tables

	Re		
DWF	No	Yes	Total
DWF	38	32	70
Pass	97	100	197
Total	135	132	267

It Is What It Is... (Our First Semester Results - Spring 2017)



DWF: 12.1% (11:00 am)





DWF: 34.4% (8:00 am)

Good teaching is working on your teaching,... ©

Do Early Birds Catch The Worm?



■ Before (n= 103) ■ After (n= 29)

%

DWF Rates For 8a.m. compared to Non 8a.m. classes X²(3)=8.418, p<.05*, N=267

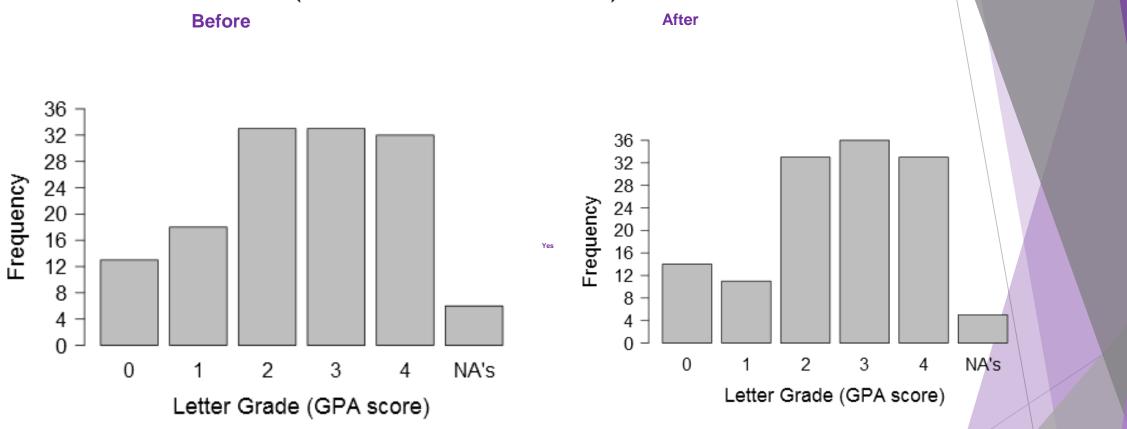
DWF rate for Non 8a.m.=21.2%

DWF rate for 8a.m. sections=35.1%

Contingency Tables

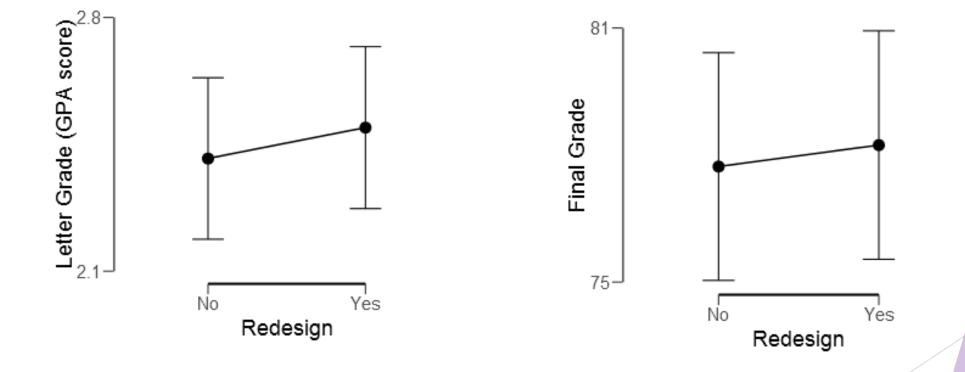
ClassTime					
DWF	11:00	12:30	15:30	8:00	Total
DWF	4	14	18	34	70
Pass	29	54	51	63	197
Total	33	68	69	97	267

Grade Distributions Before and After Redesign (Both Instructors)



Final Grades Results (Both Instructors)

Final Average Letter Grade (GPA score) t(254)=.54, p=.59, d=.067 Final Average Numeric Grade t(245)=.26, p=.79, d=.034



What We Have Learned

- Although mean DWF rates appeared to be moving in the right direction, no statistical significance was established and the effect size after 2 semesters of redesign was negligible.
- It is not possible to disentangle the effect of each individual component of the redesign at this time nor other confounds such as idiosyncratic instructor effects.
- 8am PSYC 1101 classes have a significantly higher DWF rate than non-8am PSYC classes
 - Non-8am classes have a 14% lower DWF rate than 8am classes compared to 3.2% difference for redesign (advising and scheduling implications).
- Still much work to be done!

Successes 🕲

- Although recent Spring 2018 combined DWF rates appear promising (15.6%, n=45), no inferential statistics have been conducted.
- Increased faculty conversations about high impact teaching strategies as evidenced by new department colloquium series.
- ► New opportunities through MGA's CETL.
- Expand mindfulness about student success and progression
- Affordable textbooks for students

Future Research

- Do at-risk students (who could benefit the most from the extra activities) take full advantage of the opportunities?
- Do supplemental activities lead to better test grades or do they simply add more grades to attenuate the weight of tests?
- Do supplemental activities actually decrease grades due to noncompletion?
- Do Teaching Assistants and tutors help at-risk students?

"Success is not final, failure is not fatal, it is the courage to continue that counts."

- Winston Churchill

Questions?