



Group Effort: Study Group Matching Service

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Problem:

- Calculus III is hard
- Study groups help
- Some students can't find study groups

Methodology:

Determine Scope

- Preliminary Research
- Interview with Academic Advising

Assess Demand

- Survey recent Calc. III students
- Response n = 102

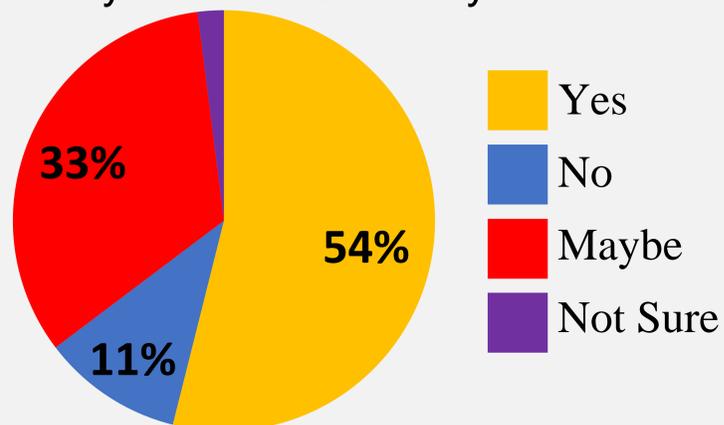
Deliverable

- Created website
- Designed group assignment system

Solution:

The online service arranges study groups for Calculus III students.

Would a study group have improved your Calculus III ability?



Survey Conclusions:

- M.A.S.H. is not enough help
- 2/3 students did not benefit from M.A.S.H.
- 87% would benefit from study groups
- Only 47% used study groups
- Over 200 students could use our service

Why Study Groups?

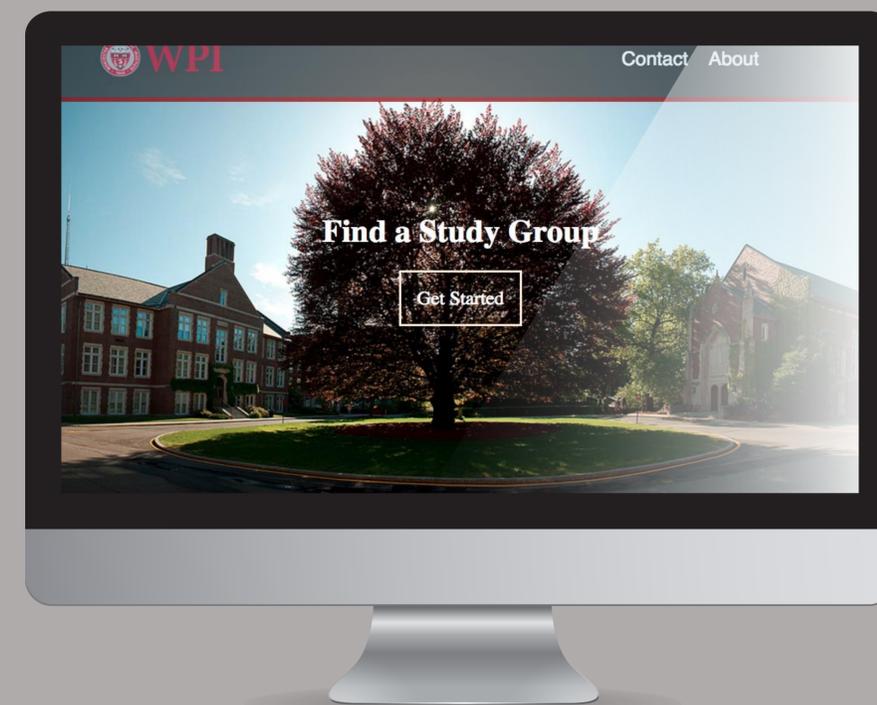
“Cooperative group work within the classroom has been shown to increase student achievement as well as promote a more positive attitude toward the subject being studied” (Rybczynski, 2011).

Deliverable:

- Designed website
- Implemented assignment system
- Initiated Academic Advising's support

Group Effort:

- Students sign up to join a study group
- Groups register to accept more members
- We assign members by ability & availability



References:

Rybczynski, S. M., & Schussler, E. E. (March 1, 2011). Students use out-of-class study groups in an introductory undergraduate biology course., 74-84. doi:10.1187/cbe-10-04-0060

MacNeal, S. (January 1, 2015). *Student Preparedness in College Mathematics*, Worcester Polytechnic Institute.