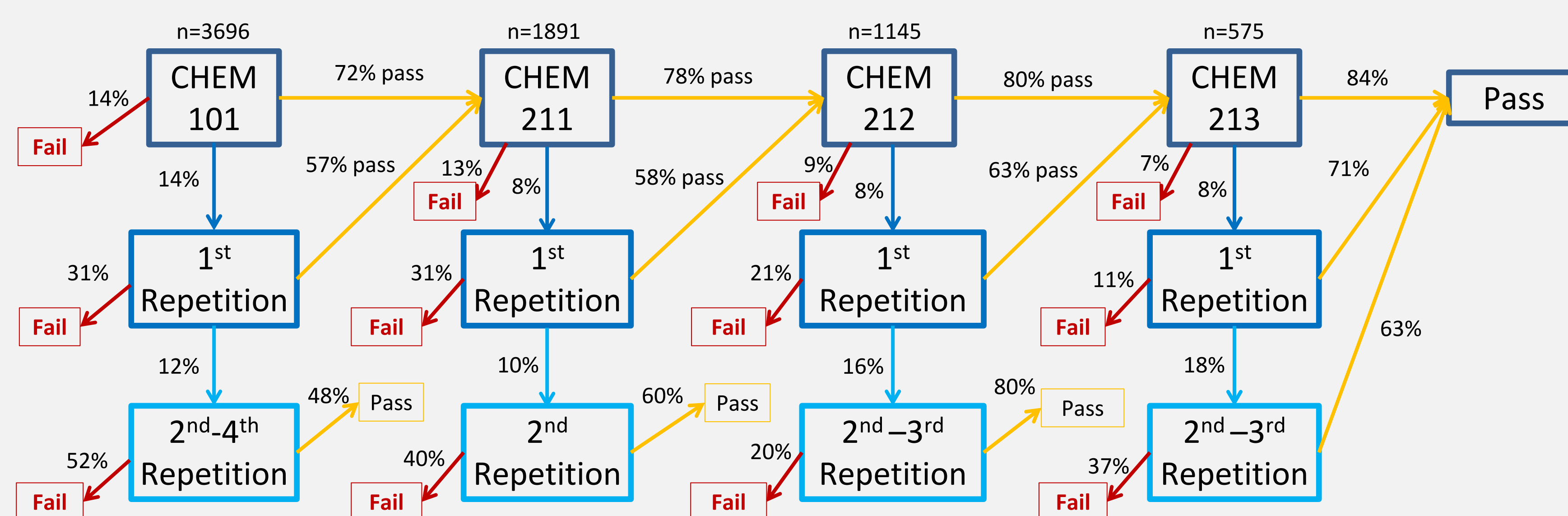


Study of General and Organic Chemistry Sequences at CSUB from Fall 2011 to Winter 2016

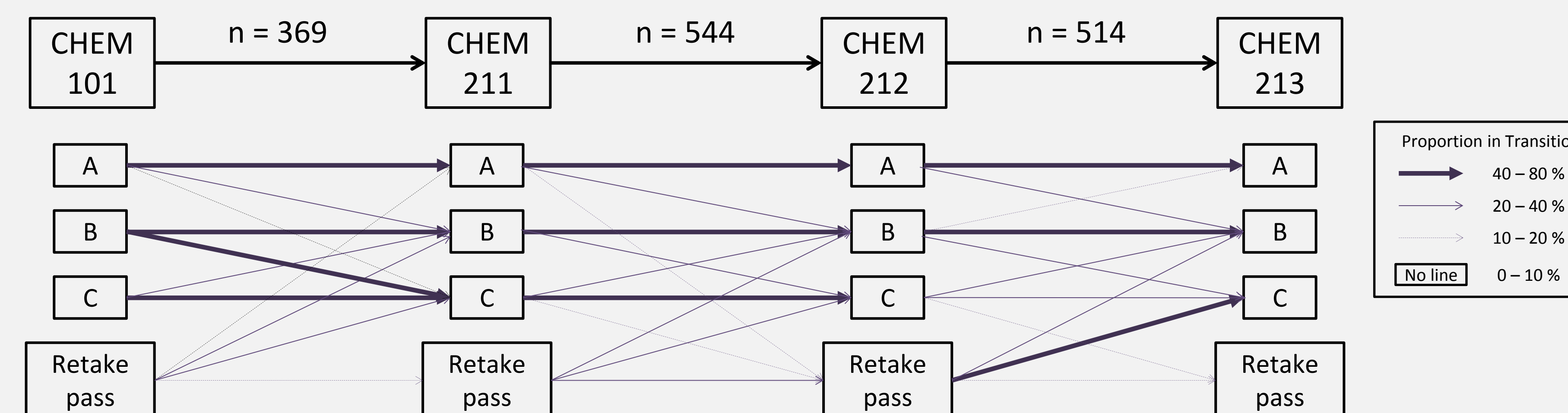
Passing Rates, Trajectories, and Habitual Types of Students

General Chemistry

Pass/Fail analysis from Fall 2011 to Winter 2016



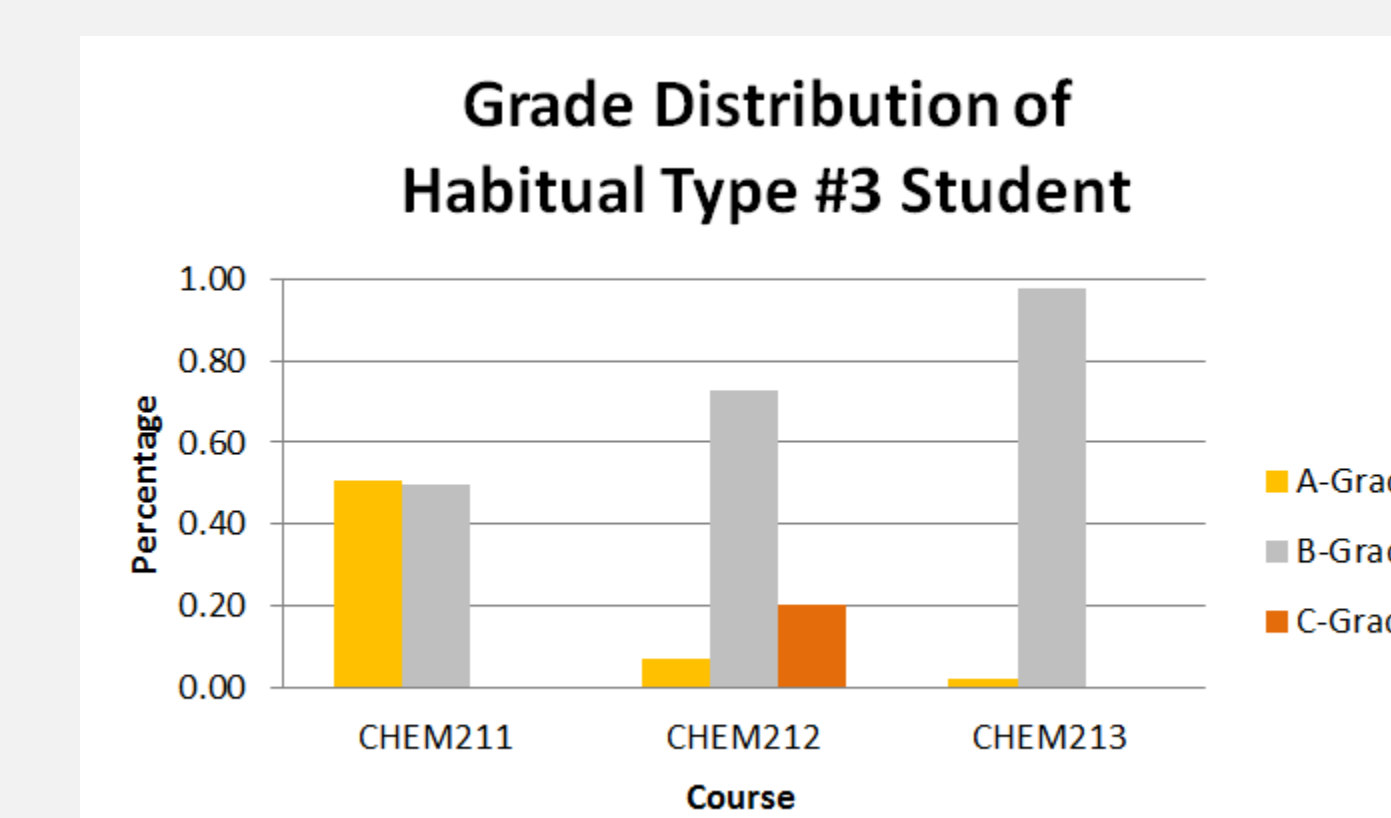
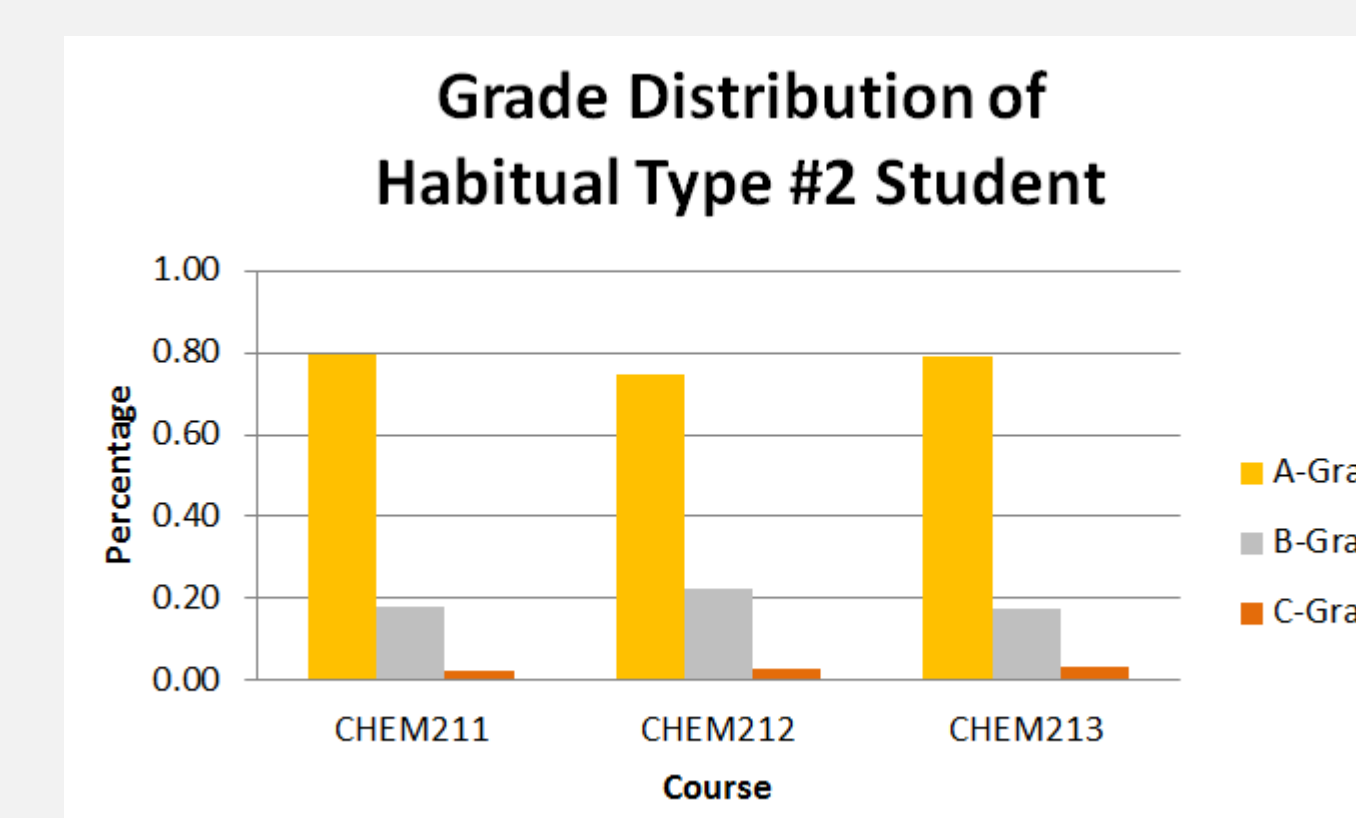
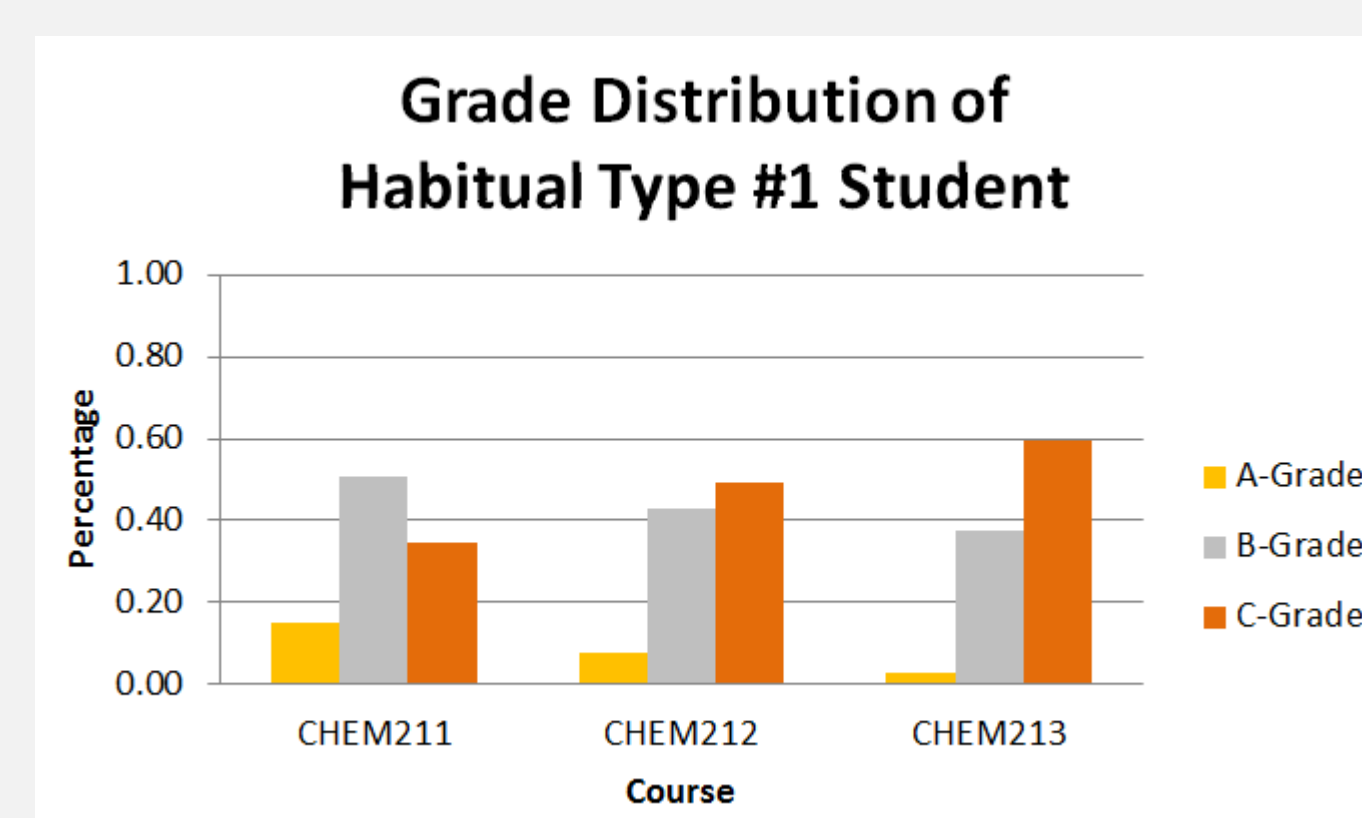
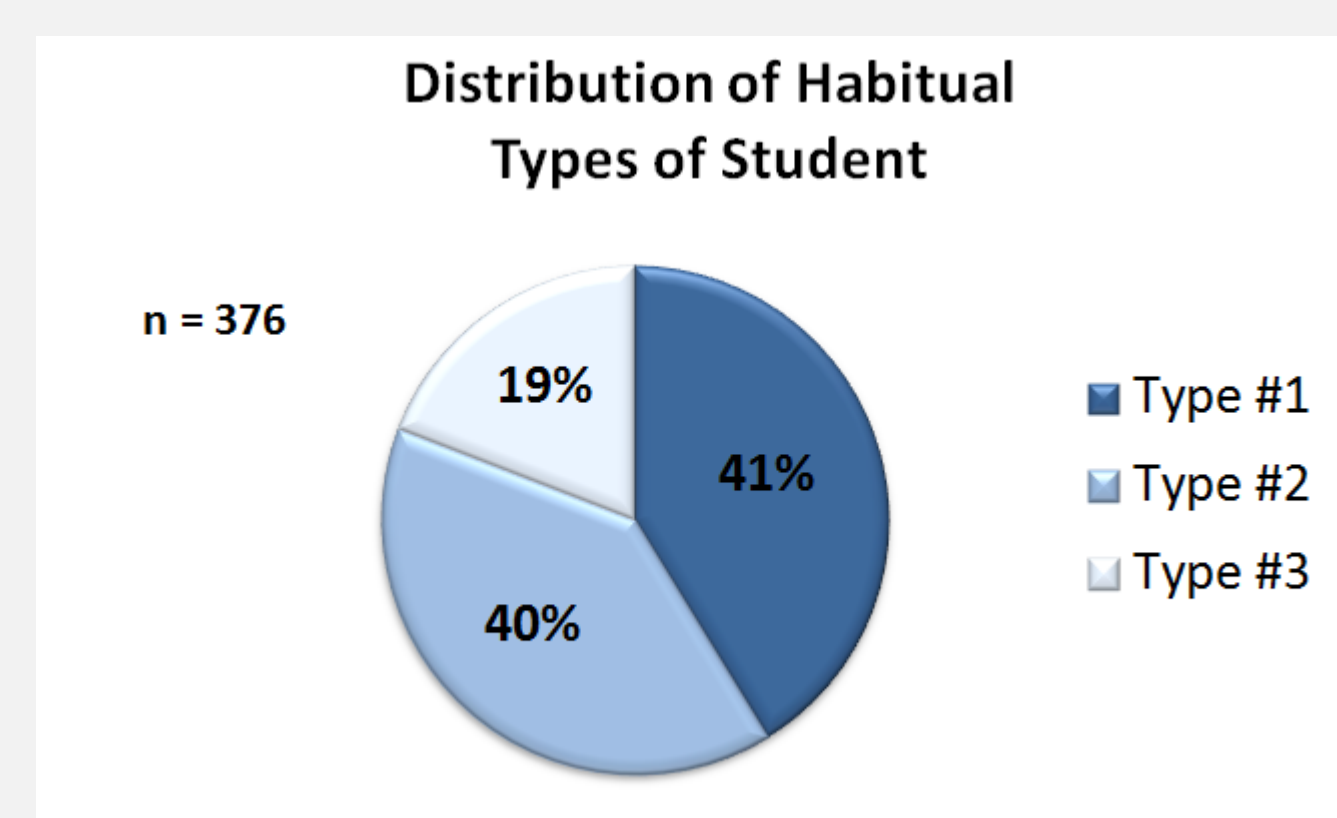
Student Trajectories from CHEM101 to CHEM213



Note: Data include students with reported grades in CHEM213 during the period of Fall 2011 to Winter 2016. Not all students have recorded grades from previous chemistry courses. N values indicate number of students with grades in transition courses.

Habitual Types of Students based on Grades

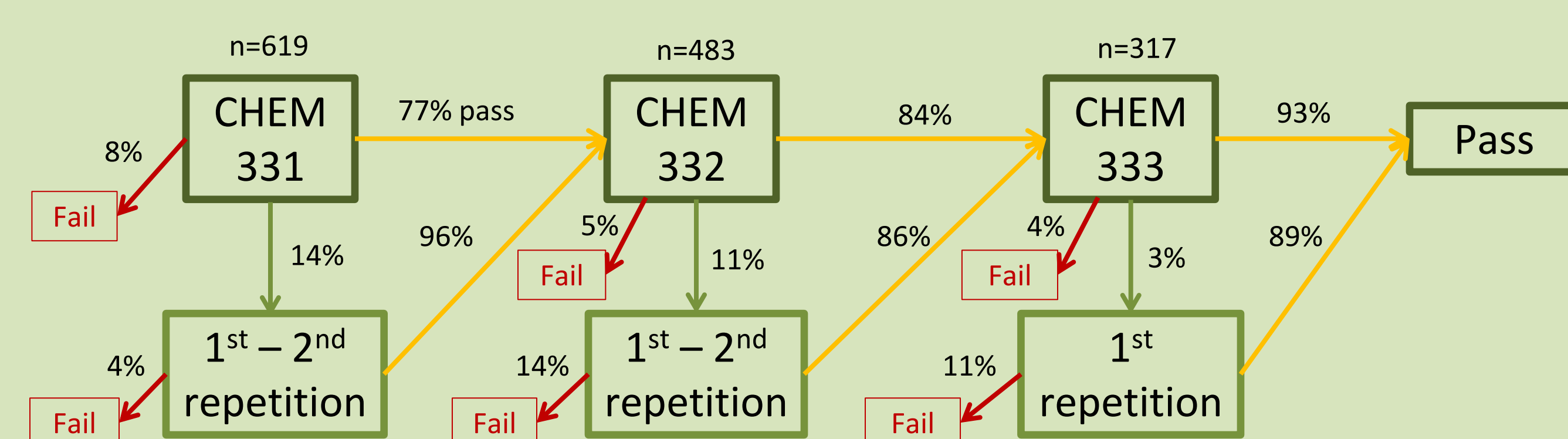
The graphs on the right describe the habitual types of students that pass the general chemistry sequence without repeating a single course. "Habitual types" refer to the distinctive groups (or categories) of students that emerge from the data based on the grades they received throughout the sequence. The habitual types (or categories) were found using Latent Class Analysis.



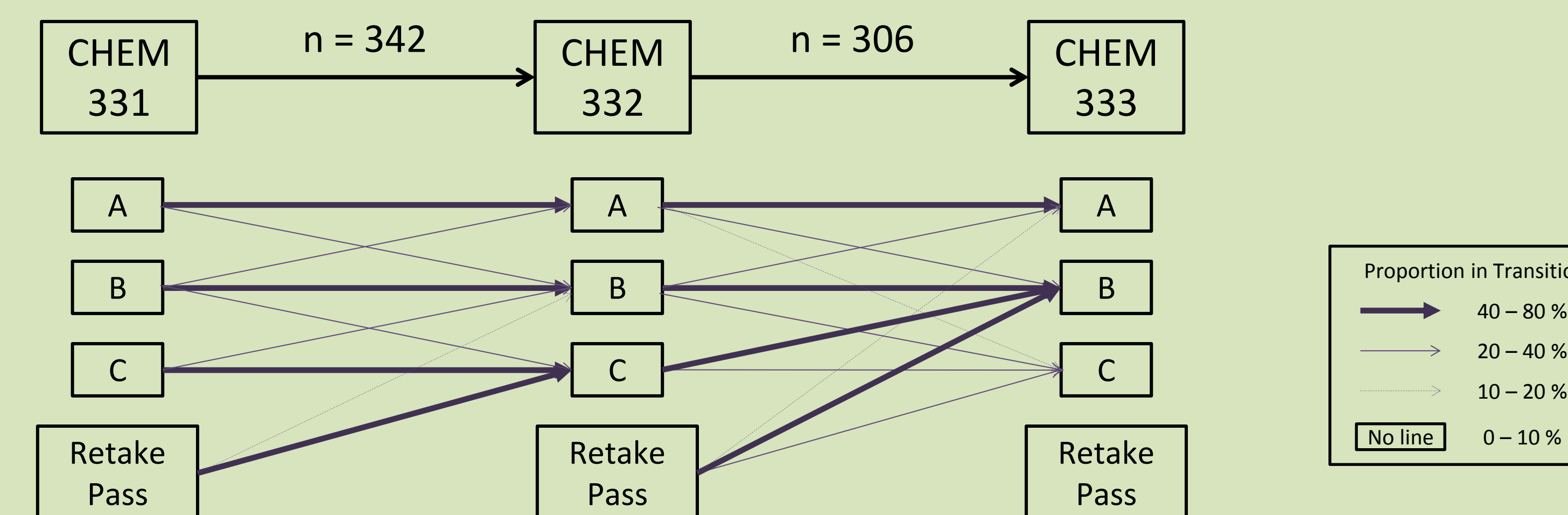
Note: Data include students with reported grades in CHEM213 during the period of Fall 2011 to Winter 2016, and that pass the courses without repetition.

Organic Chemistry

Pass/Fail analysis from Fall 2011 to Winter 2016



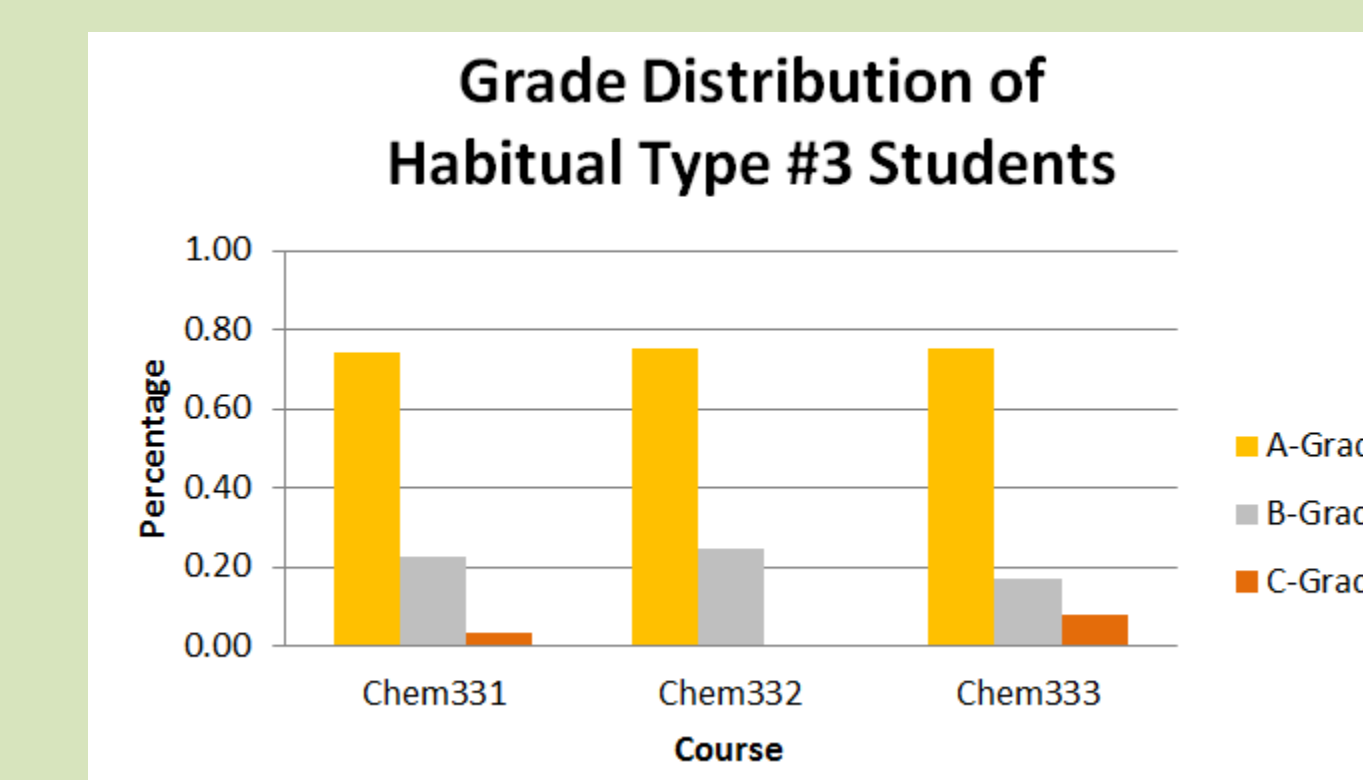
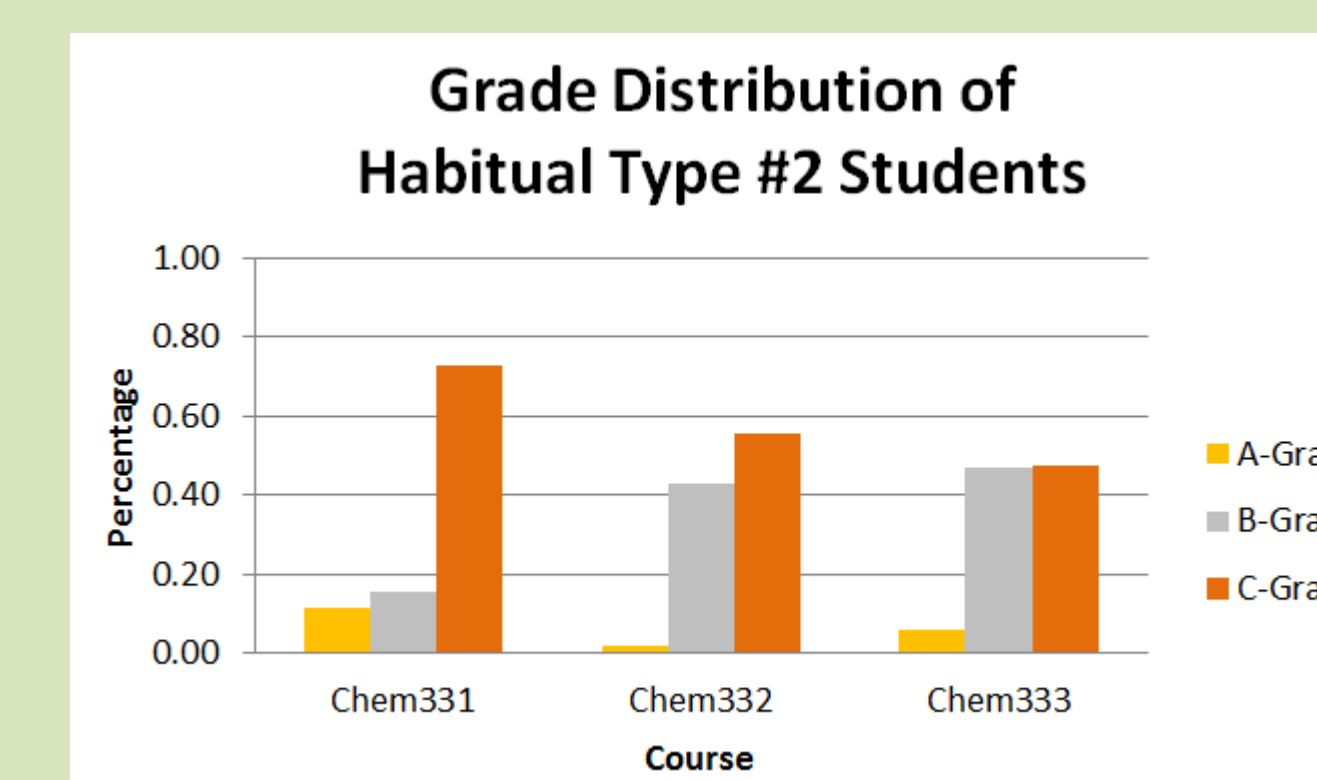
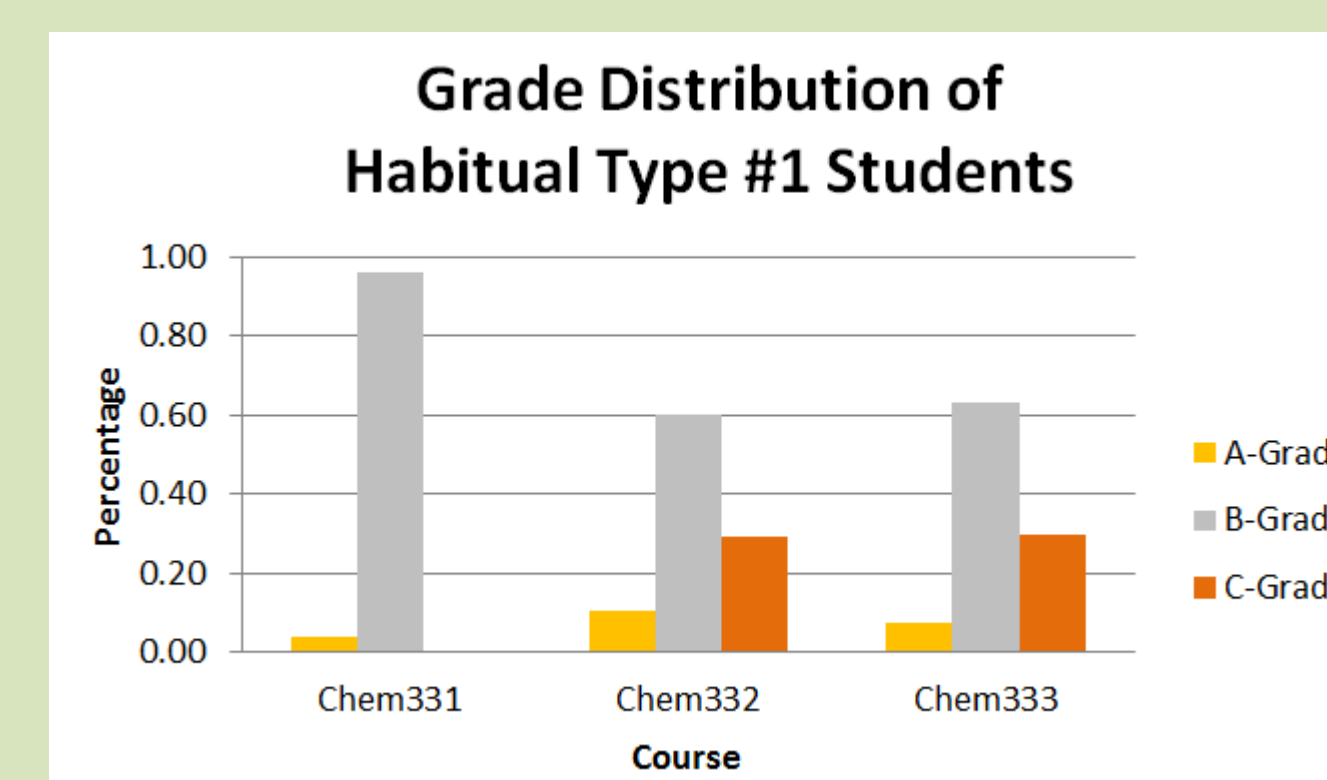
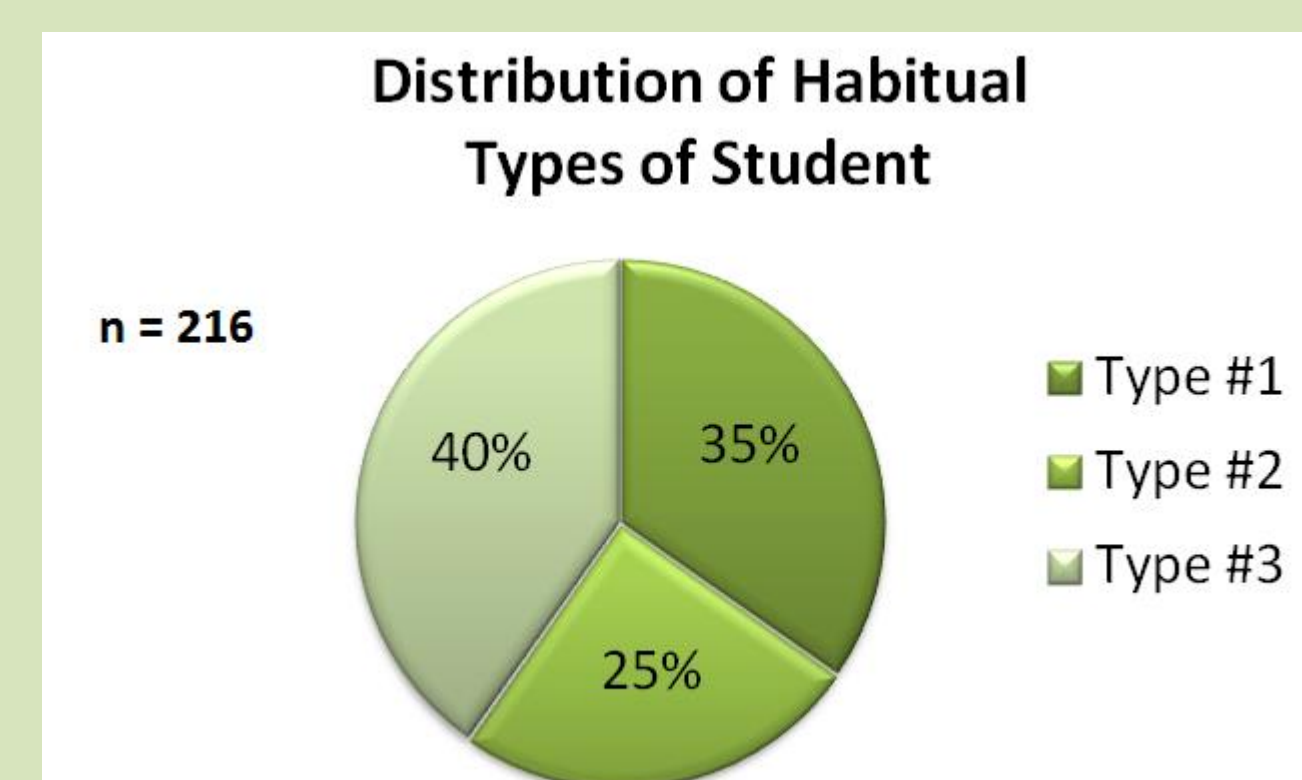
Student Trajectories from CHEM331 to CHEM333



Note: Data include students with reported grades in CHEM331 during the period of Fall 2011 to Winter 2016. Not all students have recorded grades from previous chemistry courses. N values indicate number of students with grades in transition courses.

Habitual Types of Students based on Grades

The graphs on the right describe the habitual types of students that pass the organic chemistry sequence without repeating a single course. "Habitual types" refer to the distinctive groups (or categories) of students that emerge from the data based on the grades they received throughout the sequence. The habitual types (or categories) were found using Latent Class Analysis.



Note: Data include students with reported grades in CHEM333 during the period of Fall 2011 to Winter 2016, and that pass the courses without repetition.