Barrier Code Category Description of Code

class-size Enrollment observations where the student mentions conflicts with classsize, waitlist..etc as barriers.

confidence motivation observations where the student mentions their lack of confidence in their ability to do well in the next course also, their lack of confidence in learning/understanding the concepts of the next course.

cs-skills academic support observations where the student expressed specific topics in computer science, or CS materials as barriers.

difficulty academic support Observations where the student mentions course difficulty for current, future courses or course content as a barrier.

excitement motivation observations where students mention lack of excitement for next course or topic.

external external resources observations where students mention external factors as a barrier to the next course in sequence (work, transportation, housing etc.)

falling-behind academic support Observations where the student mentions falling-behind in a course.

friends social Observations where the student mentions the lack of having friends/peers to work on assignments with as barriers.

grades academic support Observations where the student mentions grades or performance in current course being a barrier for taking the next course.

health external resources Observations where the student expresses health concerns as a barrier.

no answer Observations where the student states the barriers are unknown

inst-o department-norms Observations where other institutional factors around persisting in the major are mentioned.

learning-skills academic support Observations where the student mentions personal attributes or skills that improve learning (time management, work ethic, etc.)

modality Enrollment Observations where students mention mode of learning and college experience.

no-answer no answer left blank

idk

no-barriers no-barriers observations where the student does not mention any barriers.

other other misc, responses

prep academic support obervations where students mention their prior experience as a barrier to taking the next course.

prof department-norms observations where students mention the professors teaching the next course or teaching style as a barrier.

scheduling-conflict Enrollment Observations where students student mention conflicting schedule for classes or enrollment as barriers.

tas academic support observations where students mentioned the TA's or ability to seek help when needed a barriers.

workload department-norms Observations where students mention pace or volume of work in courses as barriers.

Confidence Code Category Description of Code

no-answer

capacity

modality

capacity

capacity

cs-skills

external

learning-skills

modality

other

prof

tas

workload

no-answer

idk

confidence self-efficacy Observations where the student expresses confidence in their ability to learn/understand concepts of the next course or to go on to the next course.

knowledge Observations where students mention specific skills/topics in computer science.

ease self-efficacy Observations where materials and assignments seems to be easy (not difficult) to the student.

excitement motivation Observations where students mention the next course/current course being fun and/or general excitement is expressed.

modality Observations where students mention external factors. .

friends capacity Observations where students mention friends/peers to work on assignments with or having an impact on their experience.

grades validation Observations where students mention grades or performance in current course being the primary reason they'd continue on to the next course

Observations where the student states the confidence is unknown.

inst-o other Observations where other institutional factors around persisting in the major are mentioned.

Observations where students express personal attributes or skills that improve learning (time management, work ethic, etc.)

Observations where students mention mode of learning and college experience.

no-answer left blank

not-good lack-confidence observation where the student mentions not feeling good about taking the next course, and anyone who writes "nothing" / "none"

other misc. responses

prep knowledge obervations where students mention their prior experience contributes to them feeling good about taking the next course

Observations where students mention the professors teaching the next course or teaching style as factors

Observations where students mention the TA's, teaching staff or ability to seek help when needed

capacity Observations where students express the pace or volume of work in courses