Data wrangling logic:

1. Begin with a data frame of students and their total earned hours for each semester (one student per row).
2. ‘Max term data’ logic:
   1. Reflects the last term of enrollment a student has on record
   2. Remove any credit hour values from the base file that occur after the max term
   3. Reasoning here is that there are apparently students who transfer in credits after their last semester on record, but don’t actually return/re-enroll
3. 'Graduated' logic:
   1. ‘Graduated’ here is only bachelor’s degrees
   2. Replace ALL term values with 'graduated' status and fill forward, regardless of future enrollment
4. 'Transferred Out' logic:
   1. Replace term values with 'transferred', but only where the value is not equal to 'Graduated'
   2. Fill forward transfer status, but only where term value is NA
5. 'Drop Out' logic:
   1. Calc is based on a student's last enrolled semester (max term)
   2. Drop-outs are considered someone who left MSU without graduating, and did not enroll elsewhere
   3. This was the trickiest one, and the logic was done in Excel first, to remove students with a max term that meet the below criteria
      1. If the student has a 'graduated' status AFTER their last semester, their max term was removed (because they should not be considered a drop-out)
      2. If the student has a 'graduated' status BEFORE their last semester, that's already been overwritten by 'graduated' status
      3. If the student has a 'graduated' status EQUIVALENT TO their last semester, that's already been overwritten by 'graduated' status
      4. If the student has a 'transferred out' status AFTER their last semester, their max term was removed (because they should not be considered a drop-out, and their status between their max term and their transferred term will be sabbatical)
      5. If the student has a 'transferred out' status BEFORE their last semester, their max term was kept (because they came back to MSU after enrolling elsewhere)
      6. If the student has a 'transferred out' status EQUIVALENT TO their last semester, their max term was removed (because they should not be considered a drop-out)
6. 'Sabbatical' logic:
   1. Sabbatical replaces the remaining NA values, with the exception of summer semesters
7. Then the remaining NAs are filled in with the previous value