**Student Progression Enrichment Batch**

**Background**

3x a year, we request Data from National Student Clearinghouse for students that have participated in our Programs. After this data has been uploaded into Salesforce, we use it to enrich our Student Progression records with the enrollment details coming from NSC, most of this "enrichment" is being done manually ([NSC Data Pull](https://tbl500amory.sharepoint.com/sites/NationalDataTeamDocumentation/SitePages/NSC-Data-Pulls.aspx)). This document discusses the effort to automate this process and how to use this Batch Class.

**What's being populated?**

Below are the fields in the student progression that are being populated by the Batch.

**Persistence Fields**

|  |  |  |
| --- | --- | --- |
|  | | |
| **Field** | **API Name** | **Logic** |
| NSC Semester 1 Year | NSC\_Semester\_1\_Year\_\_c | IF NSC record exists, AND NSC Enrollment Begin Date >=8/1/cohort year numeric AND NSC Enrollment End Date <= 12/31/cohort year numeric THEN  NSC\_Semester\_1\_Year\_\_c = Cohort Year Numeric |
| NSC Semester 1 Term | NSC\_Semester\_1\_Term\_\_c | IF NSC record exists, AND NSC Enrollment Begin Date >=8/1/cohort year numeric AND NSC Enrollment End Date <= 12/31/cohort year numeric THEN NSC\_Semester\_1\_Term\_\_c = Fall |
| NSC Semester 2 Year | NSC\_Semester\_2\_Year\_\_c | IF NSC record exists, AND NSC Enrollment Begin Date >=1/1/(cohort year numeric +1) AND NSC Enrollment End Date <= 4/30/(cohort year numeric +1) THEN  NSC\_Semester\_2\_Year\_\_c = Cohort Year Numeric |
| NSC Semester 2 Term | NSC\_Semester\_2\_Term\_\_c | IF NSC record exists, AND NSC Enrollment Begin Date >=1/1/(cohort year numeric +1) AND NSC Enrollment End Date <= 4/30/(cohort year numeric +1) THEN  NSC\_Semester\_2\_Term\_\_c = Spring |
| NSC Semester 3 Year | NSC\_Semester\_3\_Year\_\_c | IF NSC record exists, AND NSC Enrollment Begin Date >=8/1/(cohort year numeric +1) AND NSC Enrollment End Date <= 12/31/(cohort year numeric +1)) THEN  NSC\_Semester\_3\_Year\_\_c = Cohort Year Numeric +1 |
| NSC Semester 3 Term | NSC\_Semester\_3\_Term\_\_c | IF NSC record exists, AND NSC Enrollment Begin Date >=8/1/(cohort year numeric +1) AND NSC Enrollment End Date <= 12/31/(cohort year numeric +1)) THEN  NSC\_Semester\_3\_Term\_\_c = Fall |

**Enrollment Fields**

X = 1 to 6

|  |  |  |
| --- | --- | --- |
| Field | API Name | Note |
| Success YX Fall College Attending | Success\_YX\_Fall\_College\_Attending\_\_c |  |
| Success YX Fall Enrollment Status | Success\_YX\_Fall\_Enrollment\_Status\_\_c |  |
| Success YX Spring College Attending | Success\_YX\_Spring\_College\_Attending\_\_c |  |
| Success YX Spring Enrollment Status | Success\_YX\_Spring\_Enrollment\_Status\_\_c |  |

**Matching Logic**

To look for the NSC Enrollment record for a specific semester we follow the logic below:

* Fall of Freshman Year
  + Enrollment Begin Date >= 8/1/College Cohort Year Numeric
  + Enrollment Begin Date <= 12/31/College Cohort Year Numeric
* Spring of Freshman Year
  + Enrollment Begin Date >= 1/1/College Cohort Year Numeric+1
  + Enrollment Begin Date <= 4/30/College Cohort Year Numeric+1
* Fall of Sophomore Year
  + Enrollment Begin Date >= 8/1/College Cohort Year Numeric+1
  + Enrollment Begin Date <= 12/31/College Cohort Year Numeric+1
* Spring of Sophomore Year
  + Enrollment Begin Date >= 1/1/College Cohort Year Numeric+2
  + Enrollment Begin Date <= 4/30/College Cohort Year Numeric+2
* Fall of Third Year
  + Enrollment Begin Date >= 8/1/College Cohort Year Numeric+2
  + Enrollment Begin Date <= 12/31/College Cohort Year Numeric+2
* Spring of Third Year
  + Enrollment Begin Date >= 1/1/College Cohort Year Numeric+3
  + Enrollment Begin Date <= 4/30/College Cohort Year Numeric+3

Notes: If there are multiple matches per semester, we don't populate the records

* Fall of Fourth Year
  + Enrollment Begin Date >= 8/1/College Cohort Year Numeric+3
  + Enrollment Begin Date <= 12/31/College Cohort Year Numeric+3
* Spring of Fourth Year
  + Enrollment Begin Date >= 1/1/College Cohort Year Numeric+4
  + Enrollment Begin Date <= 4/30/College Cohort Year Numeric+4
* Fall of Fifth Year
  + Enrollment Begin Date >= 8/1/College Cohort Year Numeric+4
  + Enrollment Begin Date <= 12/31/College Cohort Year Numeric+4
* Spring of Fifth Year
  + Enrollment Begin Date >= 1/1/College Cohort Year Numeric+5
  + Enrollment Begin Date <= 4/30/College Cohort Year Numeric+5
* Fall of Sixth Year
  + Enrollment Begin Date >= 8/1/College Cohort Year Numeric+5
  + Enrollment Begin Date <= 12/31/College Cohort Year Numeric+5
* Spring of Sixth Year
  + Enrollment Begin Date >= 1/1/College Cohort Year Numeric+6
  + Enrollment Begin Date <= 4/30/College Cohort Year Numeric+6

**How to use?**

This should only be performed by Salesforce Admin/Developer.

* Batch Class - **StudentProgressionEnrichmentBatch**
  + Constructor
    - StudentProgressionEnrichmentBatch(String **filter**, Boolean **populateEnrollment**, Boolean **populatePersistence**)
      * Parameters
        + filter - SOQL Filter/WHERE Clause, this gives the user the ability to filter which records we want to process
        + populateEnrollment - If TRUE, populates Enrollment Fields
        + populatePersistence - If TRUE, populates Persistence Fields
* Sample Script

//Populates Enrollment Fields for All Bluprint Students

String filter = 'WHERE Student\_Type\_\_c IN (\'A2B\', \'BD\')';

StudentProgressionEnrichmentBatch spBatch = new StudentProgressionEnrichmentBatch(filter, false, true);

Database.executeBatch(spBatch);

**Improvements**

* This Batch Class can be updated to get more details from NSC Record to Student Progression.