SECTION I: Identifying the Report Population

Data Source:

**OUS Enrollment and Transcript Information**

The SCARF database provides all student demographic information, high school GPA, and all information on OUS enrollment and performance. All information in SCARF is submitted by Oregon universities. High schools are identified by their six-digit ETS ID.

**High School Transcript Information**

Transcript data for students from Oregon high schools is submitted by Oregon schools and districts participating in the Integrated Data Transfer System (IDTS). Students are matched to OUS records based on Oregon Secure Student Identifier (OR-SSID) where available, and by a combination of name, date of birth, and high school of origin when SSID is not available.

The high school transcript database provides information on individual high school courses taken by students. Courses are categorized based on their 4-digit, standardized NCES code (e.g. 1711 Biology First-Year). This allows for comparison of like classes between schools.

**Oregon Assessments**

Oregon Assessment of Knowledge and Skills (OAKS) data is provided by the Oregon Department of Education. This data includes assessment information for all Oregon high school students. Students are matched to OUS records based on a combination of name and date of birth.

Please call 541-346-5827 or email ir@ous.edu with additional questions.
Identifying Entering Freshmen from Oregon: The report is restricted to students who

1. are first-time freshmen in the specified academic year, with the academic year starting in summer and ending in spring,
2. completed high school in the specified year,
3. are from an Oregon high school, and
4. are admitted to an OUS institution.

Once students are identified using these identifiers, the SSNs are checked at all OUS schools to determine if the student attended more than one institution in their freshman year. If they did attend multiple institutions, we make sure classes from both institutions are included in the analysis.

If during that year a student has reported more than one gender or ethnicity, we take the value from the institution with the highest number of credit hours. If the primary institution reports more than one gender or ethnicity in the identified year, the gender or ethnicity is reported as unknown. If the institution with the highest number of credit hours reports more than one SAT, ACT, high school GPA, high school, or high school graduation date, the maximum valid value is used.

Identifying retention to the following fall: To identify who retains to the following fall, students from the identified population are matched against SCARF records from the following fall 4th week data. If there is a match either on SSN or student ID (MPIDM), that student is included in the retention rate.

SECTION II: Identifying OUS Courses

Identifying the first course taken in each curricular area: The order in which a student takes courses is determined first by the term in which they are taken, and then in order of course number. In other words, if two courses of the same subject are taken in the same term, the one with a smaller course number shall be listed as the first course taken that term.

Identifying courses: English Composition: A course shall be categorized as an English Composition course if it has:

- CIP 23.0401 English Composition, course number 100 or greater
- CIP 23.0101 English Language and Literature General, course number 100 or greater, course prefix of ‘WR’ or ‘WRI’

Identifying courses: Arts and Letters: A course shall be categorized as an Arts & Letters course if it has:

- CIP 04.##### Architecture and Related Services
- CIP 09.##### Communications, Journalism, and related programs
- CIP 16.##### Foreign languages, literature, and linguistics
- CIP 50.##### Visual and performing arts
- CIP 23.##### English Language and Literature/Letters, excluding CIP 23.0401 and 23.0101
- CIP 23.0101 English Language and Literature General, course number 100 or greater, does not have a course prefix of WR or WRI
- CIP 24.0103 Humanities/Humanistic Studies, if has a course prefix of HUM, PHIL, or ENG
- CIP 38.0101 Philosophy
### Identifying courses: Social Science

A course shall be categorized as a Social Science course if it has:
- CIP 05.##### Area, Ethnic, Cultural, and Gender Studies
- CIP 30.##### Multi/Interdisciplinary Studies
- CIP 42.##### Psychology
- CIP 43.##### Security and Protective Services
- CIP 45.##### Social Sciences
- CIP 54.##### History
- CIP 01.0103 Agricultural Economics
- CIP 19.0101 Family and Consumer Sciences/Human Sciences, General
- CIP 19.0499 Family and Consumer Economics and Related Services, Other
- CIP 19.0601 Housing and Human Environments, Other
- CIP 19.0701 Human Development and Family Studies, General
- CIP 19.0799 Human Development, Family Studies, and Related Services, Other
- CIP 19.9999 Family and Consumer Sciences/Human Sciences, Other
- CIP 38.0201 Religion/Religious Studies
- CIP 38.0206 Jewish/Judaic Studies
- CIP 24.0103 Humanities/Humanistic Studies, if has a course prefix of SOC
- CIP 44.9999 Public Administration and Social Service Professions, if a course prefix of GEOG

### Identifying courses: Science

A course shall be categorized as a science course if it has:
- CIP 01.##### Agriculture, Agriculture Operations, and Related Sciences, excluding course numbers 01.0101 Agriculture Business and Management, and 01.0103 Agriculture Economics
- CIP 03.##### Natural Resources and Conservation
- CIP 11.##### Computer and Information Sciences and Support Services
- CIP 14.##### Engineering
- CIP 26.##### Biological and Biomedical Sciences
- CIP 40.##### Physical Sciences
- CIP 41.##### Science Technologies/Technicians
- CIP 19.0501 Food science
- CIP 30.0101 Biological and Physical Sciences
- CIP 30.0801 Mathematics and Computer Science
- CIP 31.0505 Kinesiology and Exercise Science

### Identifying courses: All math levels

A course shall be categorized as a mathematics course if it has:
- CIP 27.##### Mathematics, any course number

### Identifying courses: Remedial math

A course shall be categorized as a remedial math course if it has:
- CIP 27.##### Mathematics, any course number less than 104

### Identifying courses: College algebra

A course shall be categorized as a college algebra course if it has:
- CIP 27.##### Mathematics, course number in:
  - 105 – Intro to contemporary/collegiate mathematics
  - 106 – University Math II
  - 107 – University Math III
  - 111 – College Algebra
  - 158 – Elementary Linear Mathematics

### Identifying courses: Pre-calculus

A course shall be categorized as a pre-calculus course if it has:
- CIP 27.##### Mathematics, course number in:
  - 112 – Precalculus/Trigonometry/Elementary Functions
Identifying courses: Calculus

<table>
<thead>
<tr>
<th>A course shall be categorized as a calculus course if it has:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• CIP 27.#### Mathematics, course number in:</td>
</tr>
<tr>
<td>- 241 – Calculus for Business and Society I</td>
</tr>
<tr>
<td>- 242 – Calculus for Business and Society II</td>
</tr>
<tr>
<td>- 246 – Calculus for Biological Science I</td>
</tr>
<tr>
<td>- 247 – Calculus for Biological Science II</td>
</tr>
<tr>
<td>- 251 – Calculus I, Differential Calculus</td>
</tr>
<tr>
<td>- 252 – Calculus II, Integral Calculus</td>
</tr>
<tr>
<td>- 253 – Calculus III, Vector Calculus</td>
</tr>
<tr>
<td>- 261 – Linear Algebra/Honors Calculus I</td>
</tr>
<tr>
<td>- 262 – Linear Algebra/Honors Calculus II</td>
</tr>
<tr>
<td>- 263 – Linear Algebra/Honors Calculus III</td>
</tr>
</tbody>
</table>

Identifying courses: Beyond calculus

<table>
<thead>
<tr>
<th>A course shall be categorized as a beyond calculus course if it has:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• CIP 27.#### Mathematics, course number in:</td>
</tr>
<tr>
<td>- 235 - Discrete Structures</td>
</tr>
<tr>
<td>- 254 - Calculus IV, Multivariate/Vector Calculus</td>
</tr>
<tr>
<td>- 255 - Vector Calculus II</td>
</tr>
<tr>
<td>- 256 - Applied Differential Equations</td>
</tr>
<tr>
<td>- 268 - Mathematical Ideas in Biology</td>
</tr>
<tr>
<td>- 271 - Mathematical computing</td>
</tr>
<tr>
<td>- 280 - Intro to Proof</td>
</tr>
<tr>
<td>- 281 - Calculus IV</td>
</tr>
<tr>
<td>- 282 - Variable Calculus II</td>
</tr>
<tr>
<td>- 290 - Mathematical Perspectives</td>
</tr>
<tr>
<td>- 306 - Matrix and Power Series Methods</td>
</tr>
<tr>
<td>- 311 - Advanced Calculus I</td>
</tr>
<tr>
<td>- 312 - Advanced Calculus II</td>
</tr>
<tr>
<td>- 313 - Advanced Calculus III</td>
</tr>
<tr>
<td>- 314 - Differential Equations</td>
</tr>
<tr>
<td>- 321 - Differential Equations</td>
</tr>
<tr>
<td>- 322 - Applied Differential Equations II</td>
</tr>
<tr>
<td>- 323 - Mathematical Modeling</td>
</tr>
<tr>
<td>- 324 - Vector analysis</td>
</tr>
<tr>
<td>- 327 - Discrete Mathematics</td>
</tr>
<tr>
<td>- 333 - Fundamental concepts of topology</td>
</tr>
<tr>
<td>- 337 - Modern Geometry</td>
</tr>
<tr>
<td>- 338 - Axiomatic Geometry</td>
</tr>
<tr>
<td>- 341 - Linear Algebra I</td>
</tr>
<tr>
<td>- 342 - Linear Algebra II</td>
</tr>
<tr>
<td>- 343 - Applied Linear Algebra</td>
</tr>
<tr>
<td>- 344 - Modern algebra/Group Theory</td>
</tr>
<tr>
<td>- 345 - Ring Theory</td>
</tr>
<tr>
<td>- 346 - Number Theory</td>
</tr>
<tr>
<td>- 354 - Discrete Mathematics for CS</td>
</tr>
<tr>
<td>- 355 - Discrete Mathematics</td>
</tr>
<tr>
<td>- 451 - Numeric Linear Algebra</td>
</tr>
<tr>
<td>- 452 - Operations Research/Numerical Methods</td>
</tr>
</tbody>
</table>
### SECTION III: Identifying High School Courses

| Identifying last high school Math course | The last math course is determined by:  
Find all math coursework with an NCES code between 2011 and 2059. Take the last term of math taken by each student, looking at grades 12, 11, and 10. If more than one math course is found in the last term with a math class, take the one with the higher NCES code. If no course in the above set of NCES codes is found, look for Math courses with an NCES code between 2000 and 2099. Take the last term of math taken by each student.  
Grades are included only for students who took the last class for a letter grade. |
|---|---|
| Identifying last high school Science course | The last science course is determined by:  
Find all science coursework with an NCES code between 1701 and 1799. Take the last term of science taken by each student, looking at grades 12, 11, and 10. If more than one science course is found in the last term with a science class, take the one with the higher NCES code.  
Grades are included only for students who took the last class for a letter grade. |
| Identifying last high school English course | The last English course is determined by:  
Find all English coursework with an NCES code between 1001 and 1099. Take the last term of science taken by each student, looking at grades 12, 11, and 10. If more than one science course is found in the last term with a science class, take the one with the higher NCES code.  
Grades are included only for students who took the last class for a letter grade. |

### SECTION IV: Methodology For Reporting

<table>
<thead>
<tr>
<th>Calculating the GPA for the first year of college</th>
<th>The first year college GPA is calculated on a per student basis based on courses with a valid grade on the A-F scale, and having more than 0 credit hours. Only Oregon University System courses are included.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reporting small groups of students</td>
<td>We report enrollment and persistence regardless of the number of students. For all other metrics, we only report a metric, such as an average grade, if more than three students are included in the average. If three or fewer students have valid values, the metric is reported as a “*”.</td>
</tr>
</tbody>
</table>
| Page 1: Calculating enrollment and persistence for a school or district | Enrollment is a sum of students who are recorded in SCARF as having attended the high school or district. The total for the system is unduplicated, that is, if a student attended two institutions (e.g. PSU and EOU) they would be counted at each institution individually, but would only be counted once in the system total.  
To identify who retains to the following fall, students from the identified population are matched against SCARF records, using both SSN and student ID (MPIIDM), from the following fall’s 4th week enrollment data. If the student is taking classes at any OUS institution, that student is included in the retention rate. |
### Page 2: Calculating Academic Preparation and First-Year College Performance for a school or district

The following metrics are calculated as an average of all students with valid values in the given school/district/state, no weighting.

- High School GPA
- SAT Math & Critical Reading
- SAT Critical Reading
- SAT Math
- SAT Writing
- ACT Composite
- Overall college GPA

The following metrics are calculated as an average of all students with valid values, *weighted by credit hours*. (A 4-credit course is weighted twice as much as a 2-credit course.)

- First composition course
- First arts & letters course
- First social science course
- First math course (and subcategories)
- First science course (and subcategories)

### Page 2: Student Assessment Data

All students with assessment information are grouped into category by whether they did not meet, met, or exceeded the state assessment score. The Oregon Department of Education provides these categories with their student assessment dataset.

### Page 3: OUS performance by Student Assessments

On page 2 we grouped students into the percent who did not meet, met, or exceeded the state assessment score. On page 3 we take the students from each of those groups, and report OUS performance information (where performance information is available) by those subgroups.

The following metrics are calculated as an average of all students with valid values in the given school/district/state, no weighting.

- Overall college GPA

The following metrics are calculated as an average of all students with valid values, *weighted by credit hours*. (A 4-credit course is weighted twice as much as a 2-credit course.)

- First composition course
- First arts & letters course
- First social science course
- First math course (and subcategories)
- First science course (and subcategories)