

## ILLUME

# TACOMA ILLUME DEFINITIONS

Filter	Values	Definition
Academic Level	Undergraduate	Academic level or grouping typically associated with student program enrollments and term
Home Campus	GHC, Main, ONLN, UWT, WCC	Campus associated with the section - the campus with most enrollments in that term.
Campus	GHC, Main, ONLN, PLU, UWT, WCC	Institution-provided non mutually exclusive filter. Students are accounted for anywhere they have an enrollment that term.
Department	Academic, Baccalaureate, Non-Award Seeking, Professional Technical, Transitional Studies	Identifies the student's Department designation as defined by their academic program.
Degree (Planned Award)	Certificate, Associate's, Bachelor's, GED, Non-Degree Seeking, Unmapped	Credential sought by the student in the academic career term. Institution values are mapped to values available in the filter.



ILLUME

# TACOMA ILLUME DEFINITIONS

Filter	Values	Definition
Degree Program	ABE, ATBACAPT, ATBBSC45, ATBTPC01, etc	Identifies the student's Degree Program as defined by their academic plan used for financial aid.
Start Term	Season & Year (e.g., Spring 2016, Fall 2015, etc.)	The first time a student has an enrollment at TCC.
Full-time vs Part-time	Full-time, Part-time	Students with fewer than 12 hours (undergraduate) are considered Part-Time.



## ILLUME

# TACOMA ILLUME DEFINITIONS

Filter	Values	Definition
Student Type	First Time in College (FTIC)	The student type of FTIC is determined by a flag provided by institution for the student's current academic career. This flag will remain with the student unless institution's flag for that student changes to one of the other student types listed below such as Transfer or Readmit.
	Transfer	These student types are determined if a student have an admit type of "TRF" or other previous institution (s) besides TCC.
	High School Dual Enrollment	These student types are determined if a student have an admit type of "RUN" or student group of running start or college in the high school or fresh start.
	Readmit	These student types are determined if a student have an admit type of "RAD" or previous institution of TCC.
	Unknown Undergraduate Type	The Student Type filter is mutually exclusive. Any students that do not fall into one of the above categories will be displayed as Unknown Undergraduate Type.



## ILLUME

# TACOMA ILLUME DEFINITIONS

Filter	Values	Definition
Completed Terms	0 terms, 1 terms, 2 terms, .... 13+ terms.	Cumulative count of terms completed by the student. Completed = all terms a student was enrolled in, past the add/drop date and stayed enrolled until the end of the term in at least 1 course (i.e. did not withdraw). Does not mean successful completion. Based on enrollments
Institution GPA	None, <2.0, ≥2.0 to 2.5, ≥2.5 to 3.0, ≥3.0 to 3.5, ≥3.5 to 4.0+	Cumulative institutional grade point average.
Financial Aid	Self-Pay, Loan, Pell Grant, Other Grant, Scholarship, GI Bill	Identifies whether or not a student is a recipient of financial aid in the current term, and if so, the types of financial aid. Self-pay only if they received no other type of financial aid.
Previous Institutions	1 Previous Institution, 2 Previous Institutions, 3 Previous Institutions, 4 Previous Institutions, Not Transfer	Count of the previous institutions of higher education that a student has attended.

ILLUME

# TACOMA ILLUME DEFINITIONS

Filter	Values	Definition
Academic Standing	Good Standing, On Probation, On Warning	Students Academic Standing in the current term. Defined by GPA
Stem Major	STEM, Not STEM, Major Unknown	Identifies whether the students academic career degree program is a designated STEM program according to the US Department of Homeland Security (ICE) based on CIP Code.
Age	<18, 18-19, 20-21, 22-24, 25-29, etc	Students age in years. Taken from birthdate and updated per data extract.
Gender	Male, Female, Unknown	Students identified gender. Currently, transgender is mapped to unknown.



ILLUME

# TACOMA ILLUME DEFINITIONS

Filter	Values	Definition
Ethnicity	Hispanic or Latino, Not Hispanic or Latino	Binary ethnicity flag which are based on students self-reported information and identifies whether a student is of Cuban, Mexican, Puerto Rican, South or Central American, or Spanish culture in origin regardless of race. Ethnicity is mutually exclusive.
Race	White or Caucasian, Black or African-American, Asian, American Indian/Alaska Native, Pacific Islander, Two or more Races, Unknown	Races are mutually exclusive and are based on students self-reported information. Students who select more than one race are defined as “two or more races”



ILLUME

# TACOMA ILLUME DEFINITIONS

Filter	Values	Definition
Military	Military Affiliated, Not Military Affiliated	Binary flag that identifies whether a student is affiliated with the military. This includes individuals such as those with Veteran status as well as children, spouses, etc. of the military individual themselves.
Course Modality	All On-Ground, All-Online, Mixed or Blended	Primary modality of courses taken by the student in the career term. Identifies if student is taking 100% of courses online, 100% on-ground, or a mixed/blended.
Prediction Percentile	Bottom Quartile, Second Quartile, Third Quartile, Top Quartile	Separates active student population into 4 Quartile, with the Top Quartile being the most likely to persist



# KEY DATA SCIENCE TERMS TO KNOW

Term	Definition
Persistence	Persistence is the act of a student re-enrolling past the add/drop period in the next term or successfully completing the program of study.
Predictive Models	Process by which a model is created or chosen to try to best predict the probability of an outcome. In many cases the model is chosen on the basis of detection theory to try to guess the probability of an outcome given a set amount of input data.
Canonicalization	Also sometimes standardization or normalization. The process for converting data that has more than one possible representation into a "standard", "normal", or canonical form. -- e.g. turning 3/14/1978 and March 14, 1978 into 03/14/1978
PII	SSN: destroyed (or preferably, omitted), Birth Date: generalized into Birth Year, Student ID: tokenized.





## ILLUME

# KEY ILLUME DEFINITIONS TO KNOW

Term	Definition
Student Prediction Trend	Historical persistence calculation for previous 2+ years and the persistence prediction for the next.
Active Students	Number of students that are currently enrolled that the selected filter would apply to. If no filters are set, then it's the total active student count.
Powerful Predictors	The variables that are most indicative of a student's likelihood to persist into the next term for the filtered/selected cohort of students.
MOM (ALL)	Calculated by using all historical samples for students (both known and unknown values) related to the currently selected powerful predictor. Powerful predictor rankings are based on MOM Score.
MOM (Data Only)	Calculated using only historical samples for students with known values related to the currently selected Powerful Predictor. A good way to understand variables that are predictive despite only having a small % of the student population.



## ILLUME

# KEY ILLUME DEFINITIONS TO KNOW

Term	Definition
Mutual Info	Shared information or the overlap between two features. For example, Online GPA and GPA tend to have high shared data attributes. GPA and Courses Completed on the other hand will not.
Data %	The % of historical student data available for Powerful Predictor with the current filters applied.
Paired Predictor Plot	Allows you to look at two data features in context with one another. If you are thinking about making an action plan, the Paired Predictor Plot will help identify which one is stronger.

