

Using **Catamount Data** to Monitor Adjusted Cohorts Outcomes and Student Workload

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Office of Institutional Research
May 20, 2020



The University of Vermont

Agenda

- Introduction
- OIR & Catamount Data
- New Dashboards
 - Adjusted Cohorts Outcomes
 - Student Curriculum Matrix
 - Instructor Interdisciplinary Matrix
- Reminders & Questions

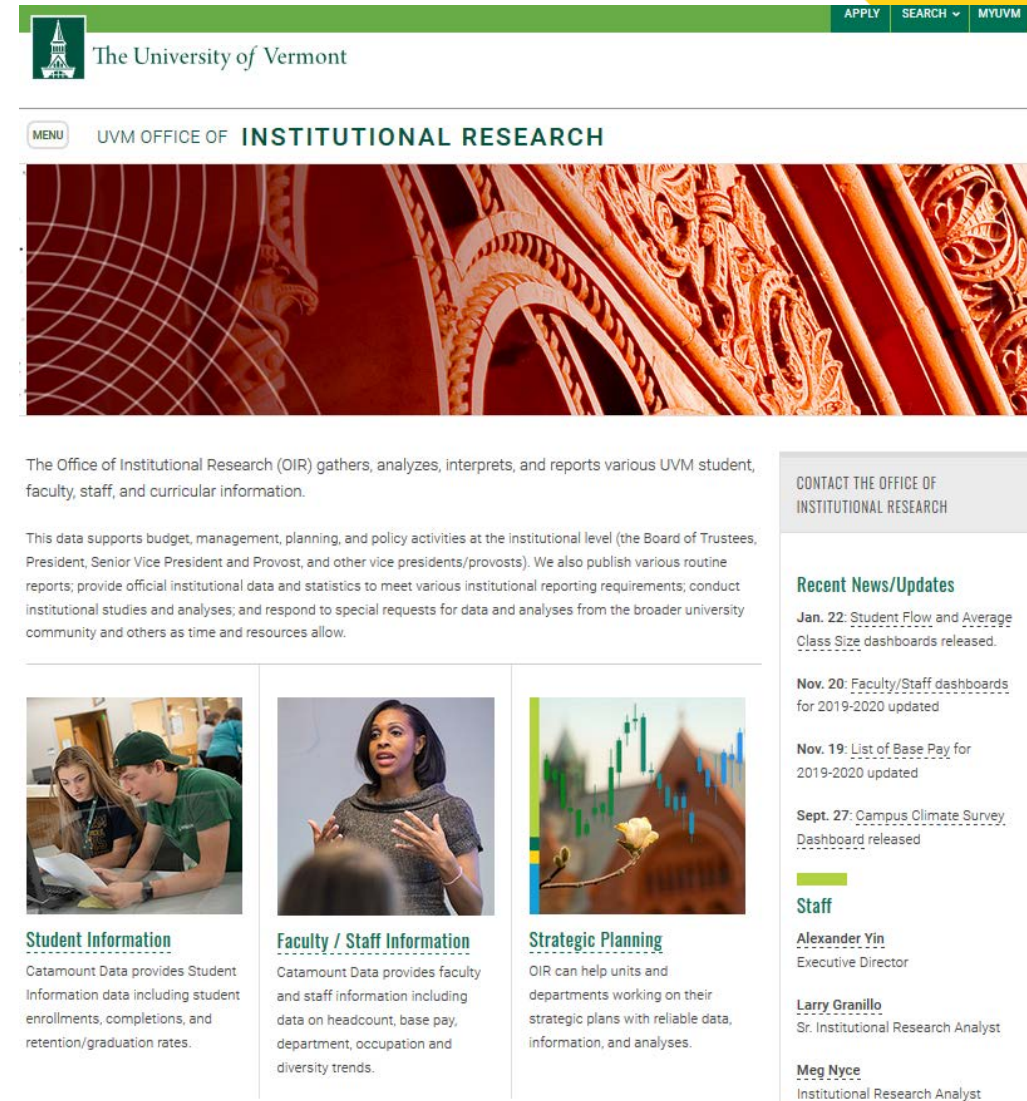
Office of Institutional Research

- Responsible for UVM's **official institutional data** and statistics regarding students, faculty, and staff
- Provide **data and analysis** to departments, colleges, administration, committees and more
- Our goal is to provide you with the data and analysis you need in order to make **data-informed decisions**



OIR & Catamount Data

- Website:
<https://www.uvm.edu/oir>
- Catamount Data: making data easily available (public and restricted data)
- Submit a Data Request!
<https://www.uvm.edu/oir/data-requests>



The screenshot displays the official website of the University of Vermont's Office of Institutional Research (OIR). The header features the university's logo and name, along with navigation links for 'APPLY', 'SEARCH', and 'MYUVM'. Below the header, a 'MENU' button is visible next to the title 'UVM OFFICE OF INSTITUTIONAL RESEARCH'. A large, ornate, reddish-brown image of a building's interior arches serves as a background for the main content area. The text describes the OIR's role in gathering, analyzing, and reporting on various UVM student, faculty, staff, and curricular information. It also mentions that the data supports budget, management, planning, and policy activities at the institutional level. A 'CONTACT THE OFFICE OF INSTITUTIONAL RESEARCH' button is located on the right side. Below the main text, there are three columns of information: 'Student Information' (with an image of students), 'Faculty / Staff Information' (with an image of a woman speaking), and 'Strategic Planning' (with an image of a building and a candle). Each column provides a brief description of the data available. On the right side, there is a 'Recent News/Updates' section listing several updates, including 'Jan. 22: Student Flow and Average Class Size dashboards released', 'Nov. 20: Faculty/Staff dashboards for 2019-2020 updated', 'Nov. 19: List of Base Pay for 2019-2020 updated', and 'Sept. 27: Campus Climate Survey Dashboard released'. Below this, there is a 'Staff' section listing 'Alexander Yin, Executive Director', 'Larry Granillo, Sr. Institutional Research Analyst', and 'Meg Nyce, Institutional Research Analyst'.

The University of Vermont

UVM OFFICE OF INSTITUTIONAL RESEARCH

The Office of Institutional Research (OIR) gathers, analyzes, interprets, and reports various UVM student, faculty, staff, and curricular information.

This data supports budget, management, planning, and policy activities at the institutional level (the Board of Trustees, President, Senior Vice President and Provost, and other vice presidents/provosts). We also publish various routine reports; provide official institutional data and statistics to meet various institutional reporting requirements; conduct institutional studies and analyses; and respond to special requests for data and analyses from the broader university community and others as time and resources allow.

CONTACT THE OFFICE OF INSTITUTIONAL RESEARCH

Recent News/Updates

- Jan. 22: [Student Flow and Average Class Size dashboards released.](#)
- Nov. 20: [Faculty/Staff dashboards for 2019-2020 updated](#)
- Nov. 19: [List of Base Pay for 2019-2020 updated](#)
- Sept. 27: [Campus Climate Survey Dashboard released](#)

Staff

- Alexander Yin**
Executive Director
- Larry Granillo**
Sr. Institutional Research Analyst
- Meg Nyce**
Institutional Research Analyst

Student Information
Catamount Data provides Student Information data including student enrollments, completions, and retention/graduation rates.

Faculty / Staff Information
Catamount Data provides faculty and staff information including data on headcount, base pay, department, occupation and diversity trends.


Strategic Planning
OIR can help units and departments working on their strategic plans with reliable data, information, and analyses.

Catamount Data

- Central repository for OIR's data
- Publicly-available information includes:
 - Student enrollment (by college, race/ethnicity, etc.)
 - Student persistence
 - Degrees awarded by program
 - Faculty & staff headcounts

[MENU](#) UVM OFFICE OF **INSTITUTIONAL RESEARCH**

Catamount Data




Catamount Data is the central place to find official data and analysis about the University of Vermont. It provides quick access to summary information relating to students, degrees awarded, faculty & staff, and more.

Faculty and Staff Information

Catamount Data provides faculty and staff information including data on headcount, base pay, department, occupation and diversity trends.

Completions and Degrees Awarded

Catamount Data also includes information about the number of degrees awarded to students each year including a program-by-program breakdown.



STUDENT ENROLLMENT & SUCCESS

Catamount Data provides student-focused data including student enrollments, completions, and retention/graduation rates.

[STUDENT ENROLLMENT DASHBOARD](#)


[ADMISSIONS DATA](#)[RETENTION / GRADUATION](#)[ENROLLMENT](#)[DEGREES AWARDED](#)[CAREER OUTCOMES](#)[LEARNING OUTCOMES](#)[FACULTY AND STAFF](#)[RESEARCH](#)[UNIVERSITY & DEPARTMENT PLANNING](#)[DIVERSITY](#)[HISTORICAL DATA](#)[FINANCIAL REPORTS](#)

Catamount Data

- Restricted-access information includes:
 - Campus Climate Survey results
 - Student enrollment by program
 - Student flow between programs
 - Average class size by course subject
- And more!

[MENU](#) UVM OFFICE OF INSTITUTIONAL RESEARCH

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Adjusted Cohorts Outcomes

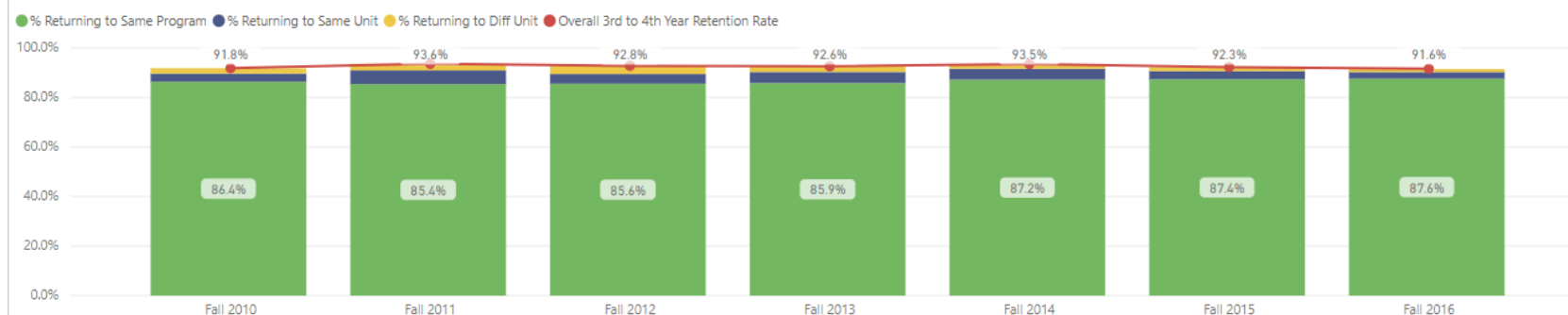
Catamount Data - UVM Office of Institutional Research

Adjusted Cohort Outcomes - Students who stayed at UVM into the 3rd year and their outcomes

Cohort Term: Fall 2016 |
 Sex: All |
 Race/Ethnicity Category: All |
 Residency: All |
 College: All |
 Home

Adjusted Cohort Retention Rate by Program											
College	Original Cohort Size	Left Major by 3rd Year	Joined Major by 3rd Year	Adjusted Cohort Size (3rd Year)	Overall 3rd to 4th Year Retention Rate	% Returning to Same Program	% Returning to Same Unit	% Returning to Diff Unit	% Graduated by 4th Year	% Studying Abroad in 4th Year	
CALS	246	129	94	211	88.2%	86.3%	1.9%	0.0%	6.6%	2.8%	
CAS	1227	921	350	656	90.7%	84.6%	4.9%	1.1%	1.8%	2.3%	
CEMS	325	194	100	231	93.1%	88.3%	2.2%	2.6%	2.2%	0.4%	
CESS	106	56	47	97	93.8%	93.8%	0.0%	0.0%	3.1%	1.0%	
CNHS	236	66	15	185	96.8%	95.7%	0.5%	0.5%	0.0%	0.5%	
GSB	183	69	40	154	90.9%	87.7%	0.0%	3.2%	3.9%	1.9%	
RSENR	173	90	81	164	90.9%	87.8%	1.8%	1.2%	1.8%	1.8%	
Total	2496	1525	727	1698	91.6%	87.6%	2.7%	1.2%	2.5%	1.8%	

Retention Rate by Adjusted Cohort (3rd to 4th Year)



Note: Bar chart shows percent of students returning between their 3rd and 4th year relative to their Adjusted Cohort Program/Major (i.e. Are they in the same major their senior year as they were in their junior year, or did it change?)

Catamount Data –

Retention/Graduation –

Retention/Graduation Planning

<http://go.uvm.edu/ruz8i>

Adjusted Cohorts Notes

- The adjusted cohort size is calculated using this formula:

Adjusted Cohort Size = Original Cohort Size – Students who leave + Students who join

- Retention and graduation rates are higher for the adjusted cohort
(once students stay into their junior year, they will most likely stay for their senior year)
- Students who stay into their junior and senior years will take more classes within their program

Data Hunt: Adjusted Cohorts Outcomes

Use the adjusted cohort dashboard to answer these questions:

Choose a cohort or group of cohorts within your program/department/college:

1. How many students are in the original cohort for your program/department/college? How many students are in the adjusted cohort?
2. What is the 3rd to 4th year retention rate for your program/department/college? What percentage of students returned to the same program/department/college during their senior year? What percentage graduated by their 4th year?
3. What is the 4 year graduation rate for the adjusted cohort for your program/department/college? 6 year graduation rate?

Student Curriculum Matrix

Year201920

SemesterAll

Metric TypeSCH

Course UnitAll

SubjectAll

Course LevelAll

Student UnitAll

Student MajorAll

Class LevelAll

Apply

Overview

Breakdown

Data List

Student Curriculum Matrix, Breakdown

Unit of Student Major by Unit of Course Discipline

Proprietary and Confidential

Catamount Data – University & Department Planning – Student Credit Hours & Matrix Dashboards

<http://go.uvm.edu/zagdy>

	⊕ CALS Courses	⊕ CAS Courses	⊕ CEMS Courses	⊕ CESS Courses	⊕ CNHS Courses	⊕ GG Courses	⊕ GSB Courses	⊕ Interdisciplinary Courses	⊕ LCOM Courses	⊕ RSENR Courses	Total
⊕ CALS Students	21,929.0	10,411.0	2,480.0	781.0	779.0	9.0	193.0	1,032.0	3,076.0	1,431.0	42,121.0
⊕ CAS Students	7,806.0	91,730.0	10,389.5	3,574.0	2,520.0	33.0	968.0	3,529.0	4,206.0	3,593.0	128,348.5
⊕ CED Students	558.0	3,277.0	1,042.0	655.0	708.0	23.0	273.0	103.0	566.0	94.0	7,299.0
⊕ CEMS Students	890.0	8,184.5	31,294.5	305.0	548.0	18.0	613.0	626.0	751.0	219.0	43,449.0
⊕ CESS Students	685.0	6,211.5	1,259.0	11,749.0	266.0	7.0	36.0	214.0	257.0	190.0	20,874.5
⊕ CNHS Students	1,670.0	7,255.5	1,064.0	1,071.0	15,208.5	0.0	34.0	442.0	3,280.0	120.0	30,145.0
⊕ GSB Students	1,334.0	5,468.0	2,335.0	754.0	191.0	12.0	14,881.0	242.0	340.0	407.0	25,964.0
⊕ Graduate Students	1,588.0	2,808.0	3,355.0	5,826.0	6,413.5	0.0	1,776.0	3,612.8	2,711.0	956.0	29,046.2
⊕ Interdisciplinary Students	0.0	91.0	231.0	58.0	0.0	577.0	0.0	0.0	0.0	0.0	957.0
⊕ RSENR Students	2,629.0	5,420.0	1,478.0	174.0	260.0	0.0	69.0	422.0	101.0	12,255.0	22,808.0
⊕ 0000	6.0	63.0	20.0	3.0	0.0	0.0	0.0	5.0	0.0	116.0	213.0
⊕ ENSC	779.0	2,254.0	702.0	29.0	56.0	0.0	6.0	199.0	35.0	4,145.0	8,205.0
⊕ ENVS	919.0	1,172.0	350.0	41.0	95.0	0.0	15.0	107.0	24.0	3,217.0	5,940.0
⊕ FOR	184.0	294.0	79.0	6.0	32.0	0.0	9.0	20.0	21.0	1,022.0	1,667.0
⊕ NR	286.0	518.0	67.0	0.0	6.0	0.0	0.0	20.0	6.0	760.0	1,663.0
⊕ PRT	95.0	262.0	68.0	43.0	54.0	0.0	33.0	12.0	0.0	730.0	1,297.0
⊕ WFB	360.0	857.0	192.0	52.0	17.0	0.0	6.0	59.0	15.0	2,265.0	3,823.0
Total	39,089.0	140,856.5	54,928.0	24,947.0	26,894.0	679.0	18,843.0	10,222.8	15,288.0	19,265.0	351,012.2

Breakdown of Student Unit Totals by Course Unit



Data Hunt: Student Curriculum Matrix

Use the student curriculum matrix dashboard to answer these questions:

1. For course subjects/disciplines taught in your program/department, what percent of SCH were earned by students within your college?
 - a) What are the percentages if you look only at first-year/sophomores and juniors/seniors?
2. For students in majors in your program/department, in which college other than your own do students earn the most SCH? Which departments within those colleges earn the most SCH?

Instructor Interdisciplinary Matrix

Year201920

SemesterAll

Metric TypeSCH

Course UnitAll

Course SubjectAll

Course LevelAll

Instructor UnitAll

Instructor TrackAll

Apply

Overview

Breakdown

Data List

Instructor Interdisciplinary Matrix, Breakdown

Unit of Instructor by Unit of Course Discipline

Proprietary and Confidential

Instructor Unit & Department by Course Unit & Department

	CALS Courses	CAS Courses	CEMS Courses	CESS Courses	CNHS Courses	GG Courses	GSB Courses	Interdisciplinary Courses	LCOM Courses	RSENR Courses	Total
Total	38,316.5	801.0	51.0	0.0	0.0	0.0	0.0	892.5	1.5	348.5	40,411.0
CALS Instructors	686.0	138,842.5	0.0	144.0	63.0	0.0	0.0	3,584.5	76.5	446.0	143,842.4
CAS Instructors	0.0	0.0	54,483.1	0.0	0.0	0.0	0.0	389.0	0.0	0.0	54,872.1
CEMS Instructors	0.0	388.0	0.0	24,727.6	372.0	0.0	576.0	345.2	0.0	0.0	26,408.8
CESS Instructors	0.0	307.0	0.0	12,093.6	372.0	0.0	576.0	57.0	0.0	0.0	13,405.6
Education	0.0	81.0	0.0	8,680.0	0.0	0.0	0.0	288.2	0.0	0.0	9,049.2
Leadership and Development S	0.0	0.0	0.0	3,954.0	0.0	0.0	0.0	0.0	0.0	0.0	3,954.0
Social Work	0.0	41.2	0.0	0.0	25,848.9	0.0	0.0	134.6	72.0	0.0	26,096.7
CNHS Instructors	0.0	0.0	0.0	0.0	0.0	679.0	0.0	0.0	0.0	0.0	679.0
GG Instructors	0.0	0.0	0.0	0.0	0.0	0.0	18,267.0	0.0	0.0	0.0	18,267.0
GSB Instructors	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,424.6	0.0	0.0	2,424.6
Interdisciplinary Instructors	86.5	641.4	393.9	0.0	538.1	0.0	0.0	2,036.6	15,138.0	9.0	18,843.5
LCOM Instructors	0.0	142.3	0.0	75.4	72.0	0.0	0.0	415.8	0.0	18,461.5	19,167.0
RSENR Instructors	39,089.0	140,856.5	54,928.0	24,947.0	26,894.0	679.0	18,843.0	10,222.8	15,288.0	19,265.0	351,012.2
Total											

Breakdown of Instructor Unit Totals by Course Unit



Catamount Data – University &
Department Planning – Student Credit
Hours & Matrix Dashboards

<http://go.uvm.edu/h5ysp>

Data Hunt: Instructor Interdisciplinary Matrix

Use the instructor interdisciplinary matrix dashboard to answer these questions:

1. For course subjects/disciplines taught in your program/department, what percent of SCH were taught by instructors in your college?
2. For instructors in your program/department, in which college other than your own do they teach courses? Which departments other than your own earn the most SCH?
3. For course subjects/disciplines taught in your program/department, how many SCH are earned in courses taught by tenured/tenure-track instructors? How many SCH are earned in lower-level undergraduate courses (000-level & 100-level) are taught by tenured/tenure-track instructors? What about upper-level undergraduate courses?

Reminders & Questions

- OIR website: <https://www.uvm.edu/oir>
- Catamount Data Center: <https://www.uvm.edu/oir/catamount-data>
- OIR Data Request Form: <https://www.uvm.edu/oir/data-requests>
- Contact us:
Larry.Granillo@uvm.edu
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Appendix



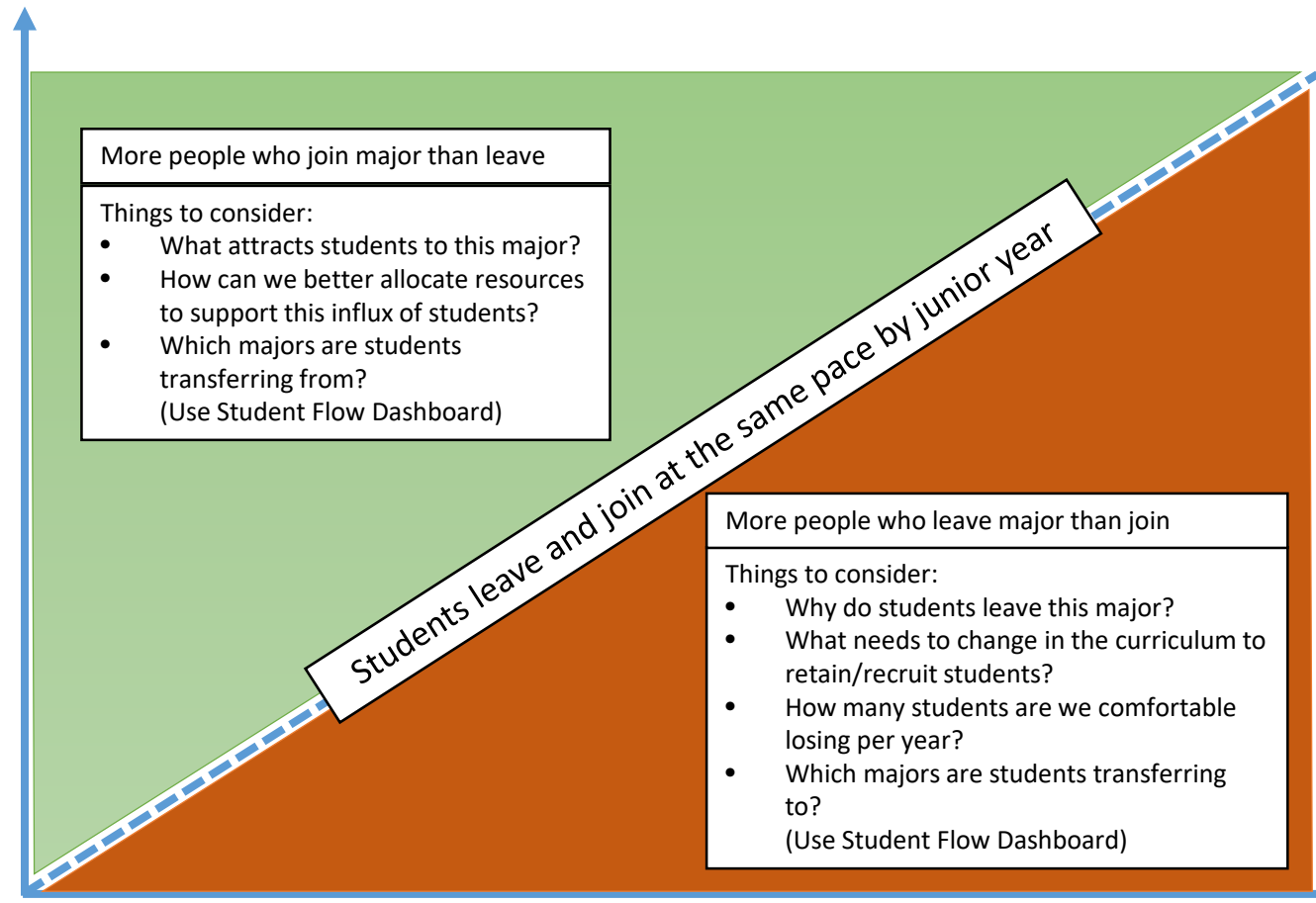
The University of Vermont

Adjusted Cohorts: Methodology and Terminology

Variable Name	Description
Original Cohort Size	The number of students who enrolled within a unit/department/program during their first fall
Left Major by Third Year	The number of students who left that unit/department/program by their third fall. This includes students who left UVM completely.
Joined Major by Third Year	The number of students who joined and were enrolled in that unit/department/program in their third fall
Adjusted Cohort Size	The number of students who enrolled within a unit/department/program during their third fall (Adjusted Cohort Size = Original Cohort Size – Left Major + Joined Major)
Overall 3 rd to 4 th Year Retention Rate	The retention rate of students in the ADJUSTED Cohort from their Junior Year to their Senior Year <u>to UVM</u> . <u>Note, because this retention rate examines students who stay into their Junior Year, the rates in this analysis will be much higher than the traditional numbers</u>
% Returning to Same Program	The retention rate of students in the ADJUSTED Cohort from their Junior Year to their Senior Year <u>in the same program</u>
% Returning to Same Unit	The retention rate of students in the ADJUSTED Cohort from their Junior Year to their Senior Year <u>in the same unit, but not the same program</u>
% Returning to Diff Unit	The retention rate of students in the ADJUSTED Cohort from their Junior Year to their Senior Year <u>in a different unit</u>
% Graduated by 4 th Year	The graduation rate of students in the ADJUSTED Cohort from their Junior Year to their Senior Year. While this rate lowers the retention rate, they are still positive outcomes for the student and program.
% Studying Abroad in 4 th Year	The study abroad rate of students in the ADJUSTED Cohort from their Junior Year to their Senior Year. While this rate lowers the retention rate, they are still positive outcomes for the student and program.
Overall 4-Year / 6-Year Graduation Rate	The graduation rates of students in the ADJUSTED Cohort

Adjusted Cohorts: Interpreting the Data

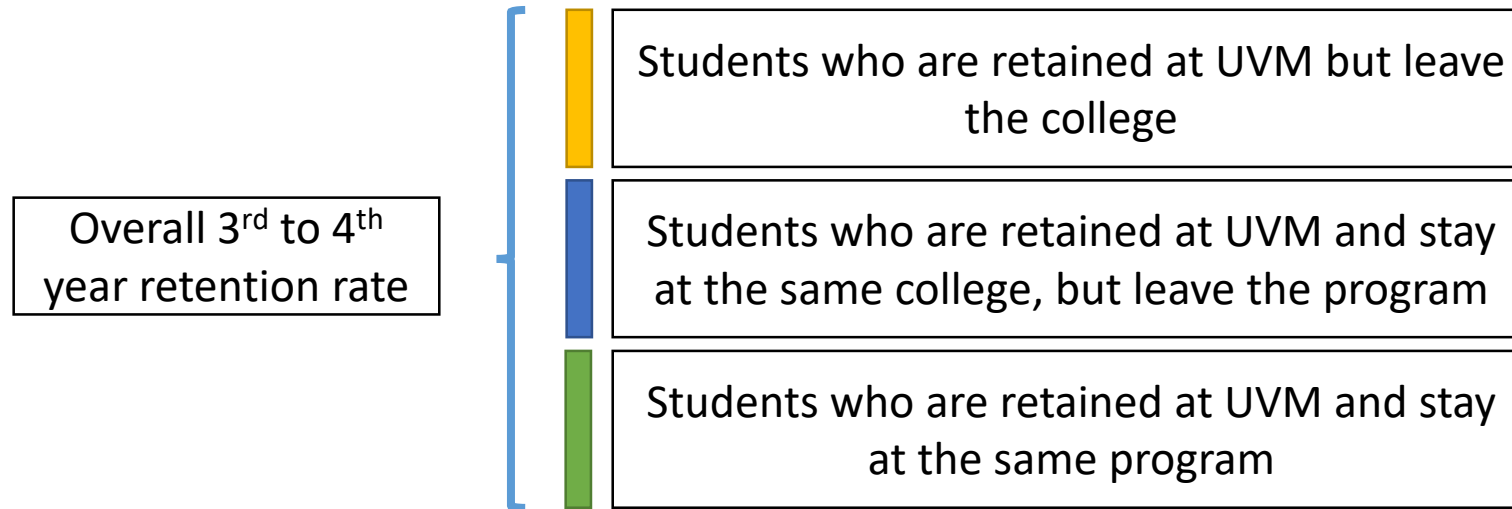
Number of
students who join
major by junior
year



Number of students who leave major by junior year

Adjusted Cohorts: Interpreting the Data

A program's 3rd to 4th year retention rate is broken out into three parts:



Things to consider:

- What programs do these students transfer to in their fourth year? (Student Flow)
- Why are these students transferring between programs/colleges?
- How can we do better with our curriculum/advising/co-curricular engagement to retain students in our programs from their third to fourth year?

OIR Data Hunt: Adjusted Cohorts & Matrix Dashboards

Adjusted Cohort Dashboards

Question 1: How many students are in the original cohort for your program/department/college? How many students are in the adjusted cohort?

Program / Department / College	Cohort Term	Original Cohort Size	Adjusted Cohort Size

Question 2: What is the 3rd to 4th year retention rate for your program/department/college? What percentage of students returned to the same program/department/college during their senior year? What percentage graduated by their 4th year?

Program / Department / College	Cohort Term	3 rd to 4 th year retention rate	% Returning to Same Program	% Returning to Same Unit	% Returning to Different Unit	% Graduated by 4 th year

Question 3: What is the 4 year graduation rate for the adjusted cohort for your program/department/college? 6 year graduation rate?

Program / Department / College	Cohort Term	4-yr Graduation Rate	6-yr Graduation Rate

OIR Data Hunt: Adjusted Cohorts & Matrix Dashboards

Student Curriculum Matrix Dashboard

Question 1: For course subjects/disciplines taught in your program/department, what percent of SCH were earned by students within your college?

Course Subject/Discipline	Year	Total SCH earned	Percent Earned Within College	Percent Earned Out of College

Question 1a: What are the percentages if you look only at first-year/sophomores and juniors/seniors?

Course Subject/Discipline	Year	Total SCH earned by First-Years & Soph.	Percent Earned Within College by First-Years & Soph.	Total SCH earned by Juniors & Seniors	Percent Earned Within College by Juniors & Seniors

OIR Data Hunt: Adjusted Cohorts & Matrix Dashboards

Question 2: For students in majors in your program/department, in which college other than your own do students earn the most SCH? Which departments within those colleges earn the most SCH?

Student Major/Program/Department	Year	Course Colleges Earning SCH	SCH Totals in Other Colleges	Top Departments in Other Colleges

OIR Data Hunt: Adjusted Cohorts & Matrix Dashboards

Instructor Interdisciplinary Matrix Dashboard

Question 1: For course subjects/disciplines taught in your program/department, what percent of SCH were taught by instructors in your college?

Course Subject/Discipline	Year	Total SCH earned	Percent Earned Within College	Percent Earned Out of College

Question 2: For instructors in your program/department, in which college other than your own do they teach courses? Which departments other than your own earn the most SCH?

Instructor Program/Department	Year	Course Colleges Earning SCH	SCH Totals in Other Colleges	Top Departments in Other Colleges

OIR Data Hunt: Adjusted Cohorts & Matrix Dashboards

Question 3: For course subjects/disciplines taught in your program/department, how many SCH are earned in courses taught by tenured/tenure-track instructors? How many SCH are earned in lower-level undergraduate courses (000-level & 100-level) are taught by tenured/tenure-track instructors? What about upper-level undergraduate courses?

[illegible]