Illini Impact

UIUC's efforts towards fostering UN's Sustainability goals

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SUSTAINABLE DEVELOPMENT GOALS x I

The Big Question

How does the curriculum, spanning various colleges and departments at the University of Illinois, foster education and awareness of sustainability goals?

Let's explore the ETL data process flow:

① Data Gathering

iSEE

Course Explorer

ILLINOIS GREEN FUND STUDENT SUSTAINABILITY COMMITTEE

ILLINOIS DIVISION OF MANAGEMENT INFORMATION

② Data Extraction (Web Scraping)

pandas

Beautiful Soup

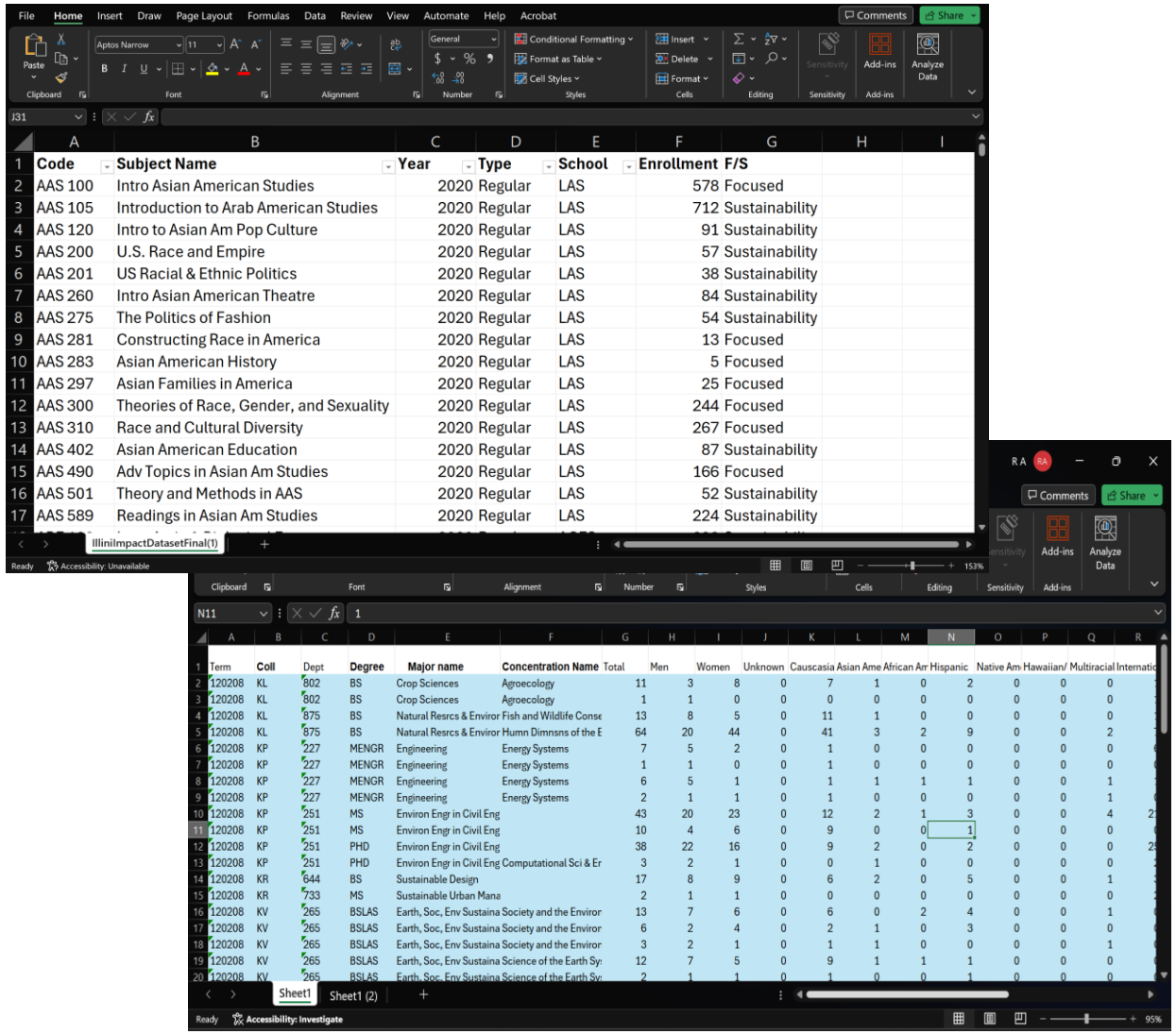
matplotlib

③ Data Transformation

④ Data Loading

tableau®

What does our **Data** look like?



Code	Subject Name	Year	Type	School	Enrollment	F/S
AAS 100	Intro Asian American Studies	2020	Regular	LAS	578	Focused
AAS 105	Introduction to Arab American Studies	2020	Regular	LAS	712	Sustainability
AAS 120	Intro to Asian Am Pop Culture	2020	Regular	LAS	91	Sustainability
AAS 200	U.S. Race and Empire	2020	Regular	LAS	57	Sustainability
AAS 201	US Racial & Ethnic Politics	2020	Regular	LAS	38	Sustainability
AAS 260	Intro Asian American Theatre	2020	Regular	LAS	84	Sustainability
AAS 275	The Politics of Fashion	2020	Regular	LAS	54	Sustainability
AAS 281	Constructing Race in America	2020	Regular	LAS	13	Focused
AAS 283	Asian American History	2020	Regular	LAS	5	Focused
AAS 297	Asian Families in America	2020	Regular	LAS	25	Focused
AAS 300	Theories of Race, Gender, and Sexuality	2020	Regular	LAS	244	Focused
AAS 310	Race and Cultural Diversity	2020	Regular	LAS	267	Focused
AAS 402	Asian American Education	2020	Regular	LAS	87	Sustainability
AAS 490	Adv Topics in Asian Am Studies	2020	Regular	LAS	166	Focused
AAS 501	Theory and Methods in AAS	2020	Regular	LAS	52	Sustainability
AAS 589	Readings in Asian Am Studies	2020	Regular	LAS	224	Sustainability

Variables used in the Visualizations

- Academic Year
- Degree (MS, PhD, BS)
- Major Name
- Total Enrollment
- Course Offerings
- Sustainability Development Goals
- University Departments (LAS, ACES, etc.)
- College Names
- Course Titles
- RSO Funding

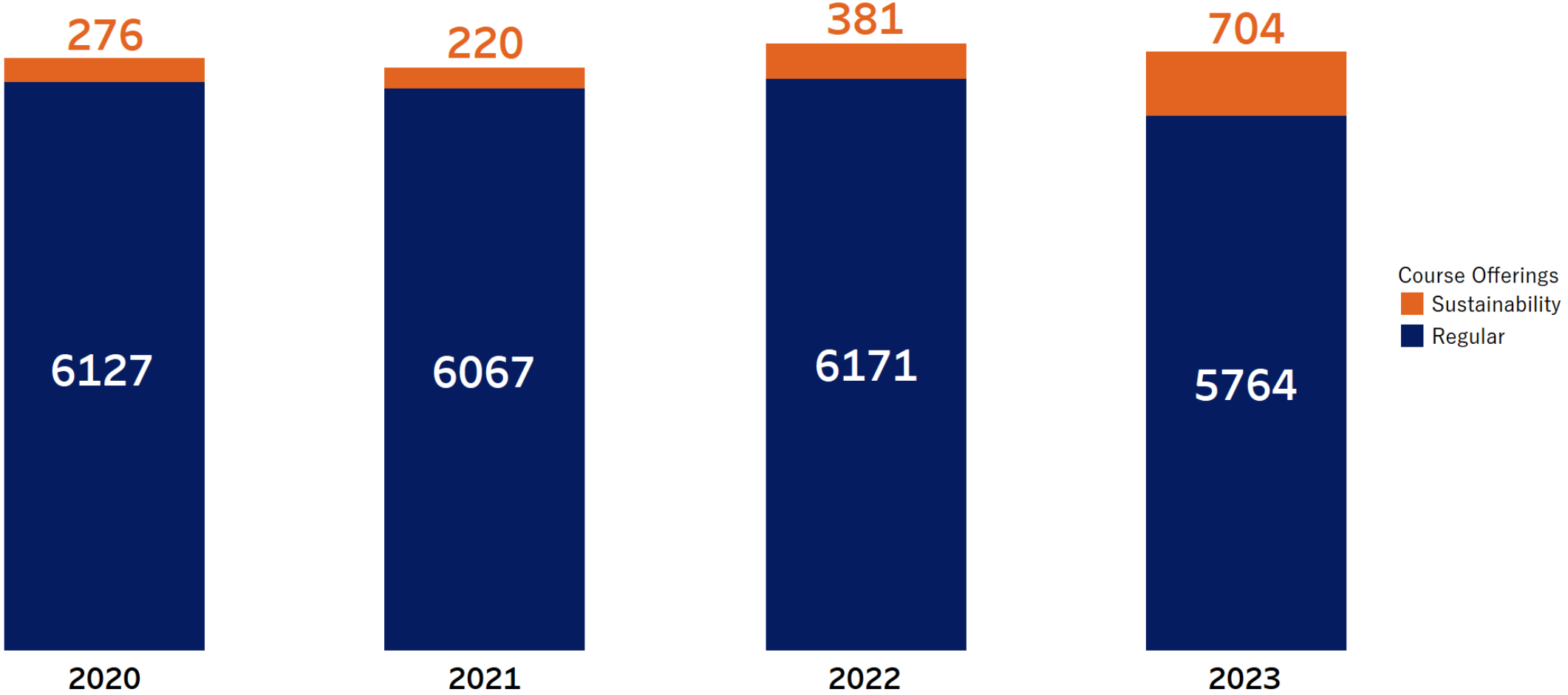
Unpacking UIUC's Course Offerings. How many courses does UIUC actually offer?

155%
Increase in Sustainability Courses

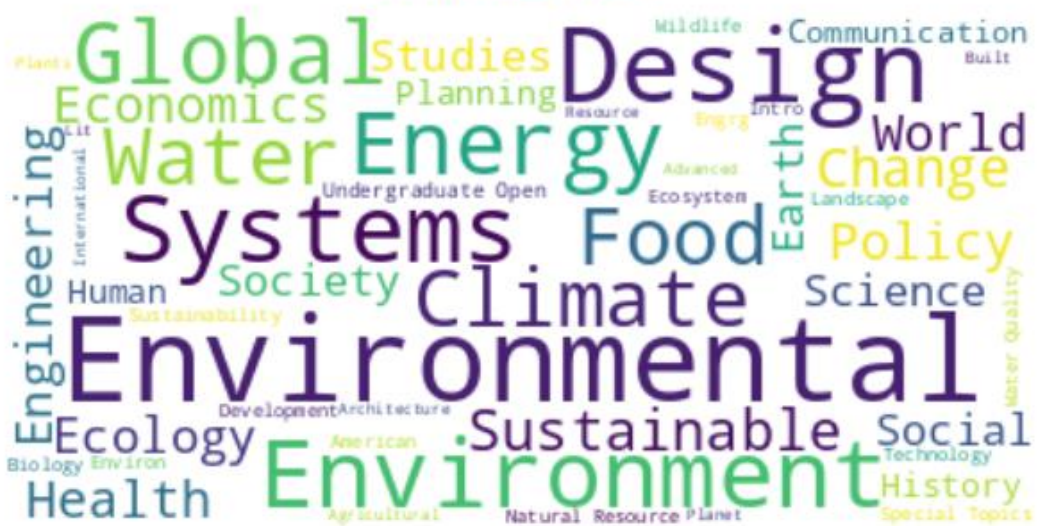
6400+
Total Courses Offered in 2023

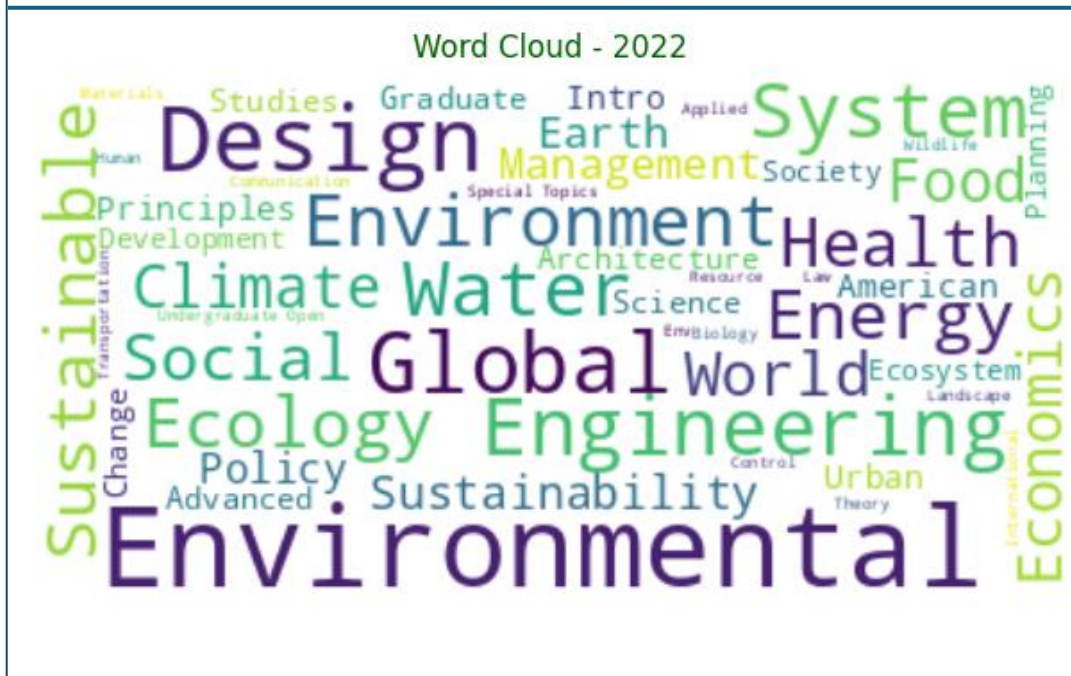
~13%
Of all courses offered related to sustainability

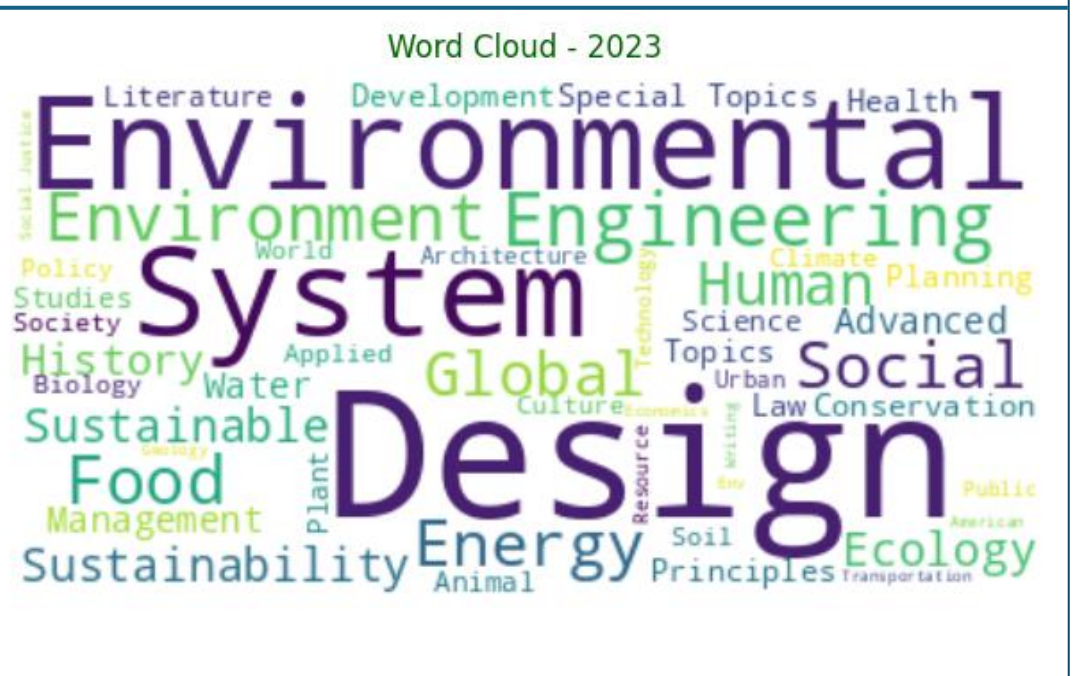
These figures underscore the university's emphasis on integrating sustainability education across its academic programs.



Word Cloud - 2020
Food
Design
Principles
Energy
Health
Economics
Urban
Ecology
Management
Social
Studies
Plant
Planning
Earth
Environment
American
Sustainable
Water
Global
Nature
Climate
Environmental
Systems
Engineering
Sustainability
World
Biology
Change
Intro
Development
Ecosystem
Writing
Communication
Control
History
Quality
Env
Natural
Water Resources
Social Movement
Resource
Issues
Topics
Workshop


Word Cloud - 2021
Global
Studies
Design
Communication
Economics
Planning
Water
Energy
World
Change
Systems
Food
Earth
Policy
Engineering
Human
Society
Climate
Science
Environmental
Ecology
Sustainable
Social
Environment
Health
History
Wildlife
Built
Resource
Undergraduate Open
Ecosystem
Landscape
Sustainability
Development
Architecture
American
Biology
Environ
Technology
Agricultural
Natural Resource
Planet
Special Topics
Water Quality


Word Cloud - 2022
Studies
Graduate
Intro
System
Design
Earth
Management
Society
Food
Principles
Development
Environment
Health
Climate
Water
Architecture
Science
American
Energy
Social
Global
World
Ecosystem
Ecology
Engineering
Policy
Advanced
Sustainability
Urban
Environmental
Economics
Sustainable
Planning
Change
Transportation
Undergraduate Open
Special Topics
Communication
Human
Materials
Applied
Wildlife
Resource
Law
Biology
Landscape
Control
Theory

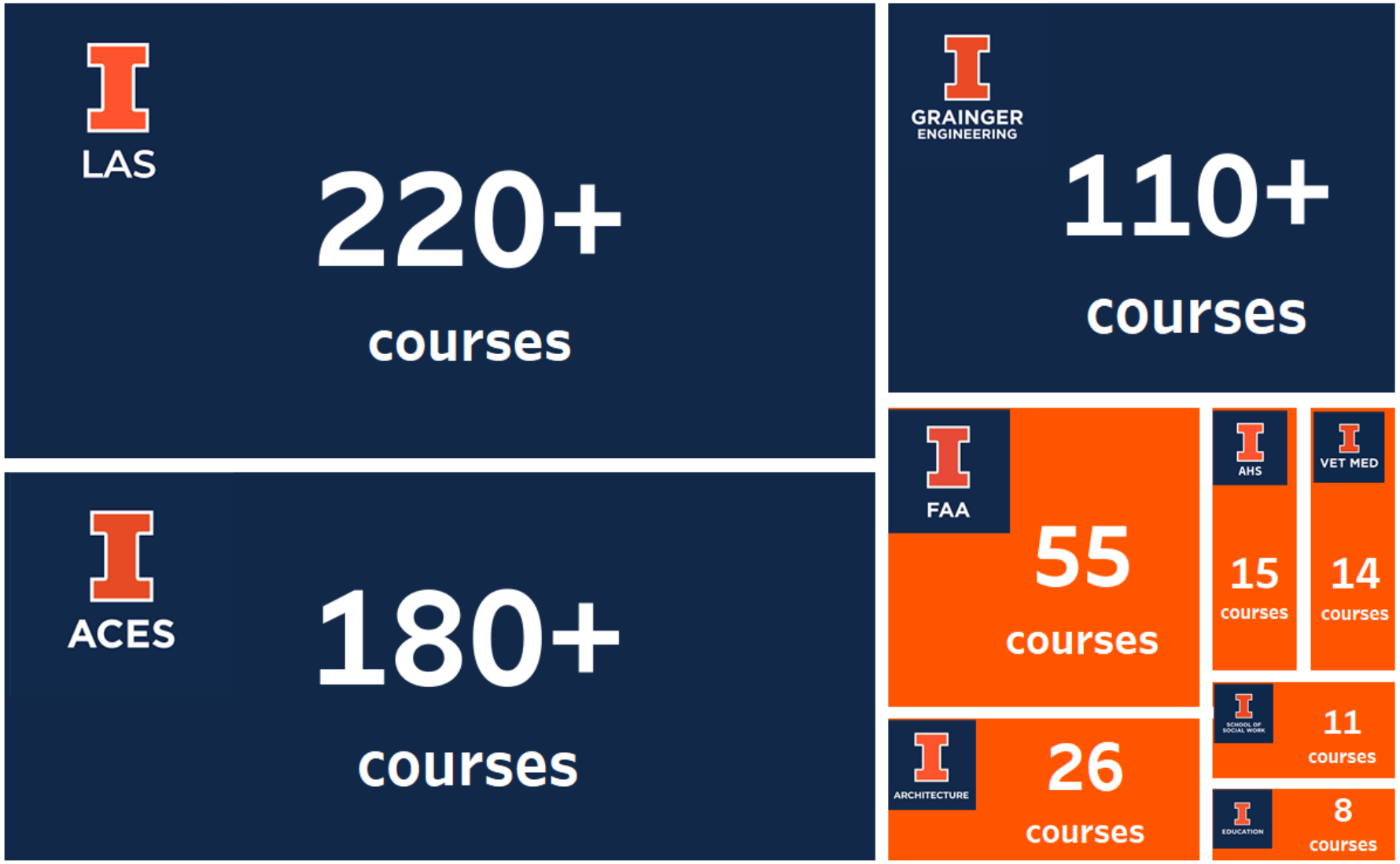

Word Cloud - 2023
Literature
Development
Special Topics
Health
Environmental
Environment
Engineering
System
Policy
World
Architecture
Climate
Planning
Studies
Human
Society
Science
Advanced
History
Applied
Global
Topics
Social
Biology
Water
Urban
Culture
Law
Conservation
Sustainable
Design
Food
Management
Plant
Resource
Public
Soil
Energy
Ecology
Sustainability
Principles
Animal
Transportation
American
Social Justice
Technology
Writing
Ecology
Env

Did we have enough courses in 2023 aligning with the UN's 17 Sustainability Development Goals?

SUSTAINABLE DEVELOPMENT GOALS

Breakdown of Sustainability Focused Course Offerings by SDGs 2023

Snapshot of sustainability courses availability in 2023 broken down by colleges

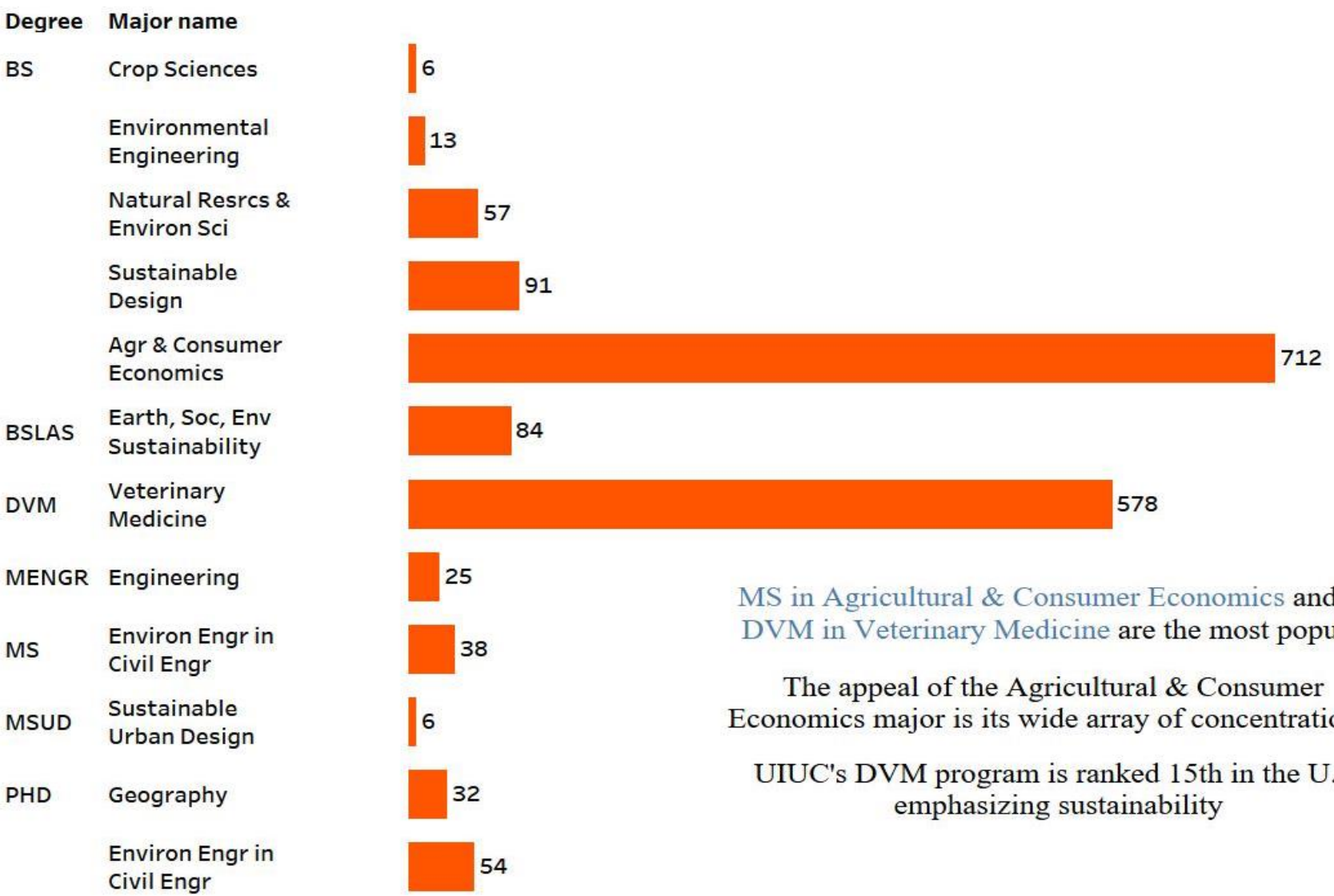


Top 3 colleges with most sustainability related courses: LAS, ACES and Grainger

College of Education, Vet Med and School of Social Work have <15 sustainability related courses

Snapshot of sustainability courses availability in 2023 broken down by colleges

Degrees related to sustainability offered in Fall 2023



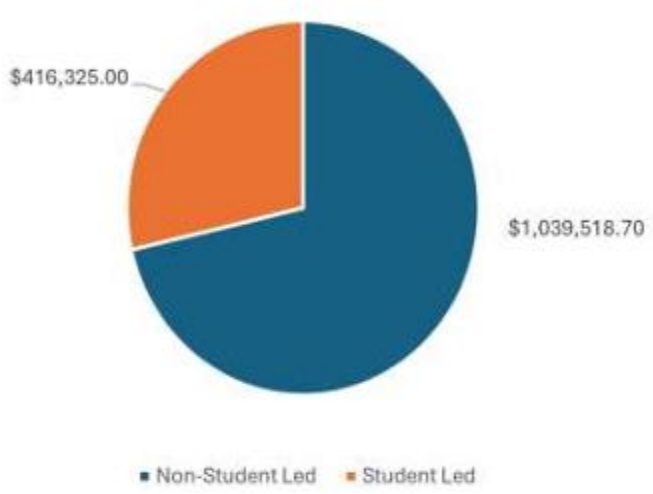
MS in Agricultural & Consumer Economics and the DVM in Veterinary Medicine are the most popular.

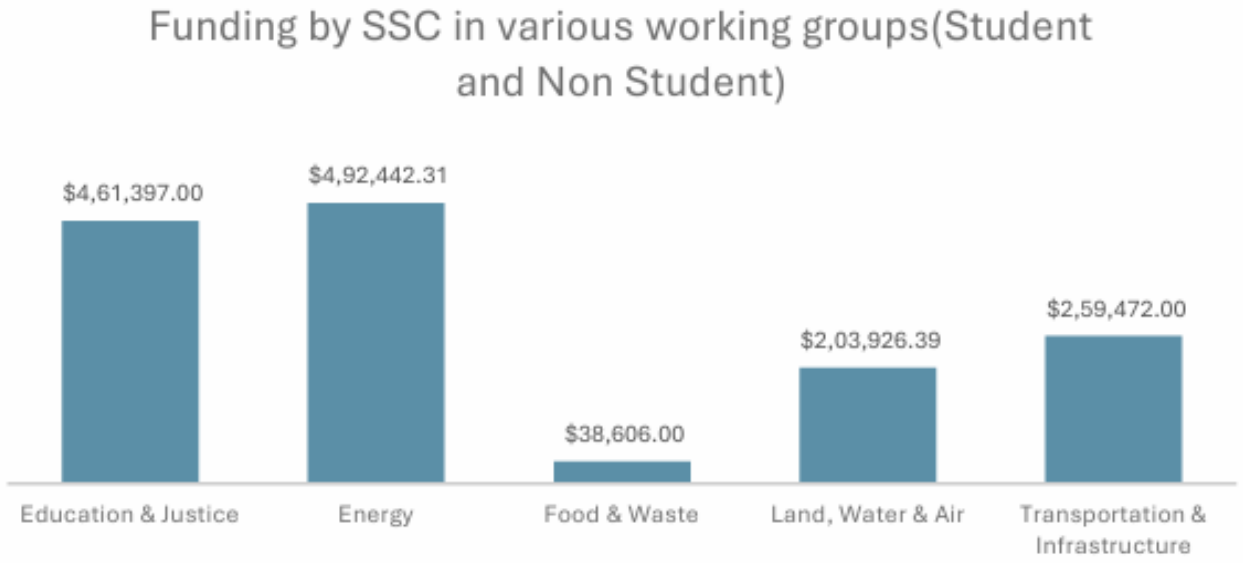
The appeal of the Agricultural & Consumer Economics major is its wide array of concentrations

UIUC's DVM program is ranked 15th in the U.S., emphasizing sustainability

Student Sustainability Committee and Funding

- SSC plays a pivotal role in fostering a culture of environmental care and responsibility on campus, allocating over **$1.5 million** annually towards environmentally impactful projects.
- Students as well as faculty/staff members can work on **5 different areas** of choice such as **energy, food & waste, land-water-air, education & justice, and transportation & infrastructure.**





Recommendations

- Align courses with SDGs
- Promote equity in course offerings
- Enhance outreach and engagement

Thank-you