
Institutional Effectiveness

Office of Institutional Research & Analysis

Presented by Darin Ellis



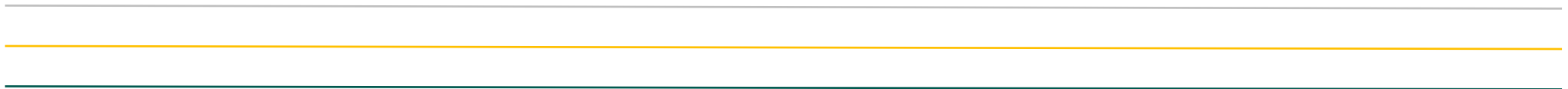


OIRA Role & Mission

WSU Data Governance & Data Ecosystem

OIRA Dashboards

WSU Rankings





Mission

We support decision makers in service to all aspects of the university's mission through excellence in data management, reporting, and analysis.

We empower the university community to make the highest and broadest use of all university data.

Values

- Integrity
- Objectivity
- Accuracy
- Transparency
- Innovation
- Customer service
- Inter-office Collaboration

OIRA's strength lies in its highly qualified and exceptionally dedicated staff, along with the diversity of their skill sets, which enables OIRA to be responsive to the campus' assorted information needs.

Serve as stewards of the University's census data and function as official source of University information

Identify information needs

Collect, analyze, interpret, and report data and information

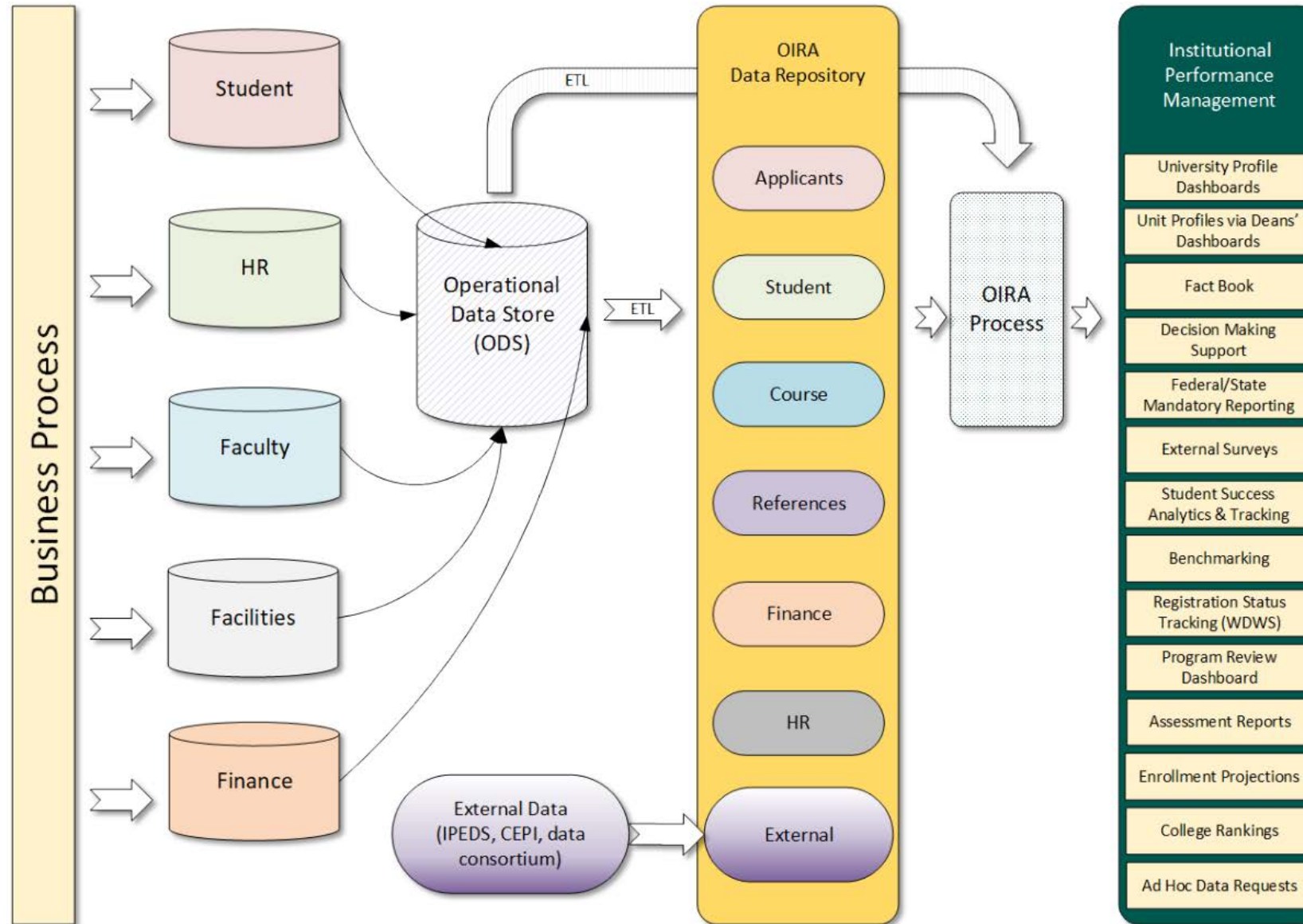
Educate information producers, users and consumers



Specific	Meaningful	Actionable	Realistic	Time-Driven
<ul style="list-style-type: none">• Gather and provide focused information for DS• Practice 'less is more' principle in information presentation	<ul style="list-style-type: none">• Deliver meaningful information• Engage in meaningful knowledge discovery that leads to data-informed actions	<ul style="list-style-type: none">• Conduct data analytics that are actionable	<ul style="list-style-type: none">• Set realistic time-lines for new projects	<ul style="list-style-type: none">• Provide timely and accurate information to stakeholders• Conduct timely data audit to assure data quality for the University



Decision-Making Support Information Management (Current OIRA Operation Flow Chart)





Office of Institutional Research and Analysis

Institutional Data Dashboards Research Decision Support

Wayne State University at a Glance

Wayne State University Dashboards

President's Dashboard

Retention/Graduation Dashboard

Diversity Dashboard

Opportunity Insights Ranking of Student Mobility

Student Pipelines

Academic Analytics Benchmarking Suite

EAB Academic Performance Solutions

Home > Dashboards > Wayne State University Dashboards

Wayne State University Dashboards



Student Enrollment



Student Credit Hours



Degree Completion



Faculty and Staff



Finance



Research

Public Reports

- open to all internal and external users

<https://oira.wayne.edu/dashboards>



Where Do We Stand (WDWS) Reports

Deans' Dashboards

Enrollment Projections Dashboard

Kick Start Dashboard

Student Success Dashboards

Academic Program Outcome

🏠 > Decision Support

Welcome to OIRA's Decision Support Dashboards

This webpage contains links to data and findings prepared by OIRA that are considered vital for data-informed decision-making. Contents on this page will be continuously updated and restricted to campus decision-makers only.

Please note, if working remotely, you must be connected to Wayne State University's VPN in order to access the data. Access to this data is limited to designated administrators. To submit a request for access, directly contact [Meihua Zhai](#) or [Alicia Roman](#).

Where Do We Stand (WDWS) Reports

Deans' Dashboards

Enrollment KPI

Course KPI

Student Success KPI

Faculty Resources

Enrollment Projections Dashboard

Kick Start Dashboard

Student Success Dashboards

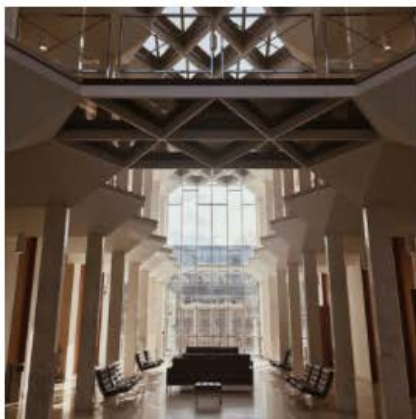
Academic Program Outcome

🏠 > Decision Support > Deans' Dashboards > Course KPI

Course KPI



Course Load Report



Seat Fill Rates



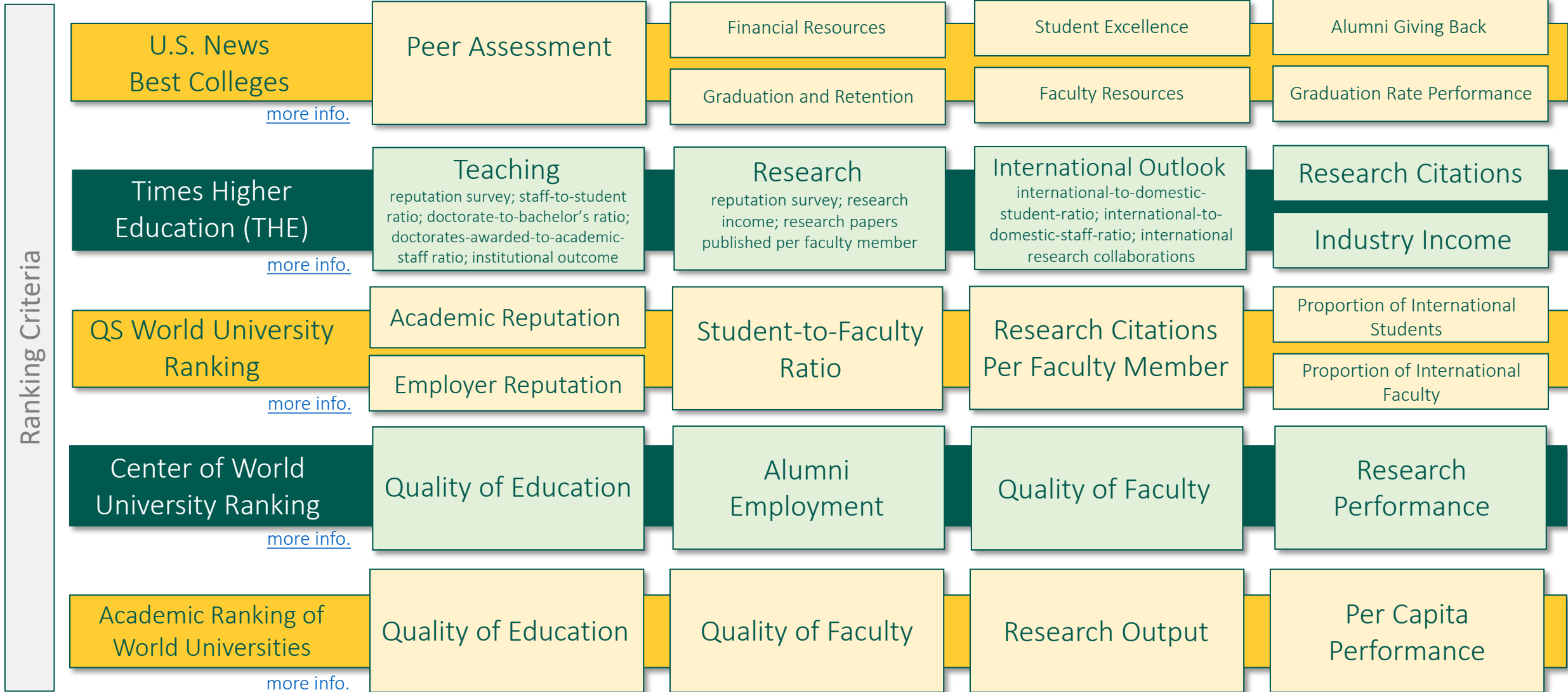
Course Registration Tracking, WDWS

Detail of Deans' Dashboard, Course KPI

Private Reports

- limited access to decision-makers

<https://oira.wayne.edu/decision-support>





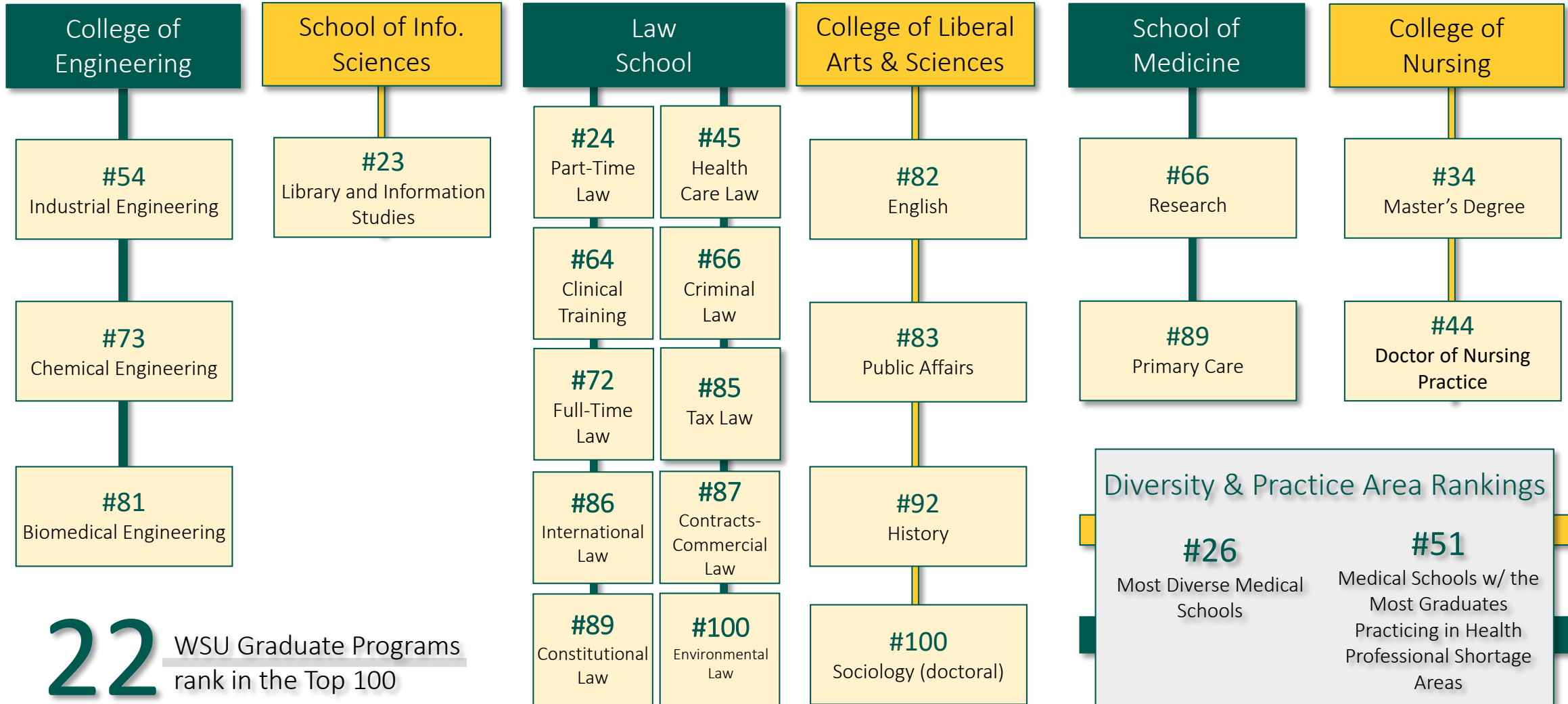
Wayne State University Institutional Rankings

	Latest Ranking Year	World Rank	# of world institutions	National Rank	# of national institutions
U.S. News Best Colleges	2021			249	310
Times Higher Education (THE)	2021	351-400	1,526	289	797
QS World University Ranking	2021	477	1,002		
Center of World University Ranking	2020-21	292	2,000	97	292
Academic Ranking of World Universities	2020	501-600	Top 1,000	134-154	135



2022 U.S. News Best Graduate Schools

Wayne State University Grad School Rankings



22 WSU Graduate Programs rank in the Top 100



Historical Wayne State U's Ranking Positions by the USNews Best College Ranking	2013	2014	2015	2016	2017	2018	2019	2020	2021
Best College Ranking	229	229	231	218	232	223	205	246	249 (with nine ties)
Top Public Institution Ranking								116	121
Most Innovative Ranking								63	63
Performance in Social Mobility (New for 2020):								125	103
Out of *						230	229	399	389
Final Tier***	2	2	2	2	2	1	1	1	1
Final Score	NA	NA	NA	NA	NA	27	29	31	44
Peer Assessment Rank	171	166	170	169	180	187	184	186	200
Financial Resources Rank	92	90	89	90	98	103	109	117	119
Graduation and Retention Rank *:	257	257	256	258	282	278	261	321	298
Student Excellence Rank:	185	195	157	169	178	148	213	279	237
Faculty Resources Rank**:	177	179	176	170	137	120	123	110	237
Alumni Giving Rank:	213	212	210	205	217	214	195	236	236
Graduation Rank Performance Rank*:	267	265	265	256	282	284	239	329	323
Outcome Rank									312

U.S. News Best Graduate School Rankings							
Wayne State University							
School/Program	2020 Rank	2019 Rank	2018 Rank	2017 Rank	2016 Rank	2015 Rank	2014 Rank
Best Engineering Schools	128	122	116	126	117	116	116
Biomedical / Bioengineering	93	78	Rank Not Published	Rank Not Published	Rank Not Published	71	67
Chemical	85	90	84	88	Rank Not Published	Rank Not Published	81
Civil Engineering	113	107	Rank Not Published	110	Rank Not Published	91	106
Computer Engineering	98	91	86	91	95	97	91
Electrical / Electronic / Communications	107	118	103	123	123	Rank Not Published	113
Environmental/Environmental Health Engineering	NA	Rank Not Published	Rank Not Published	Rank Not Published			
Industrial / Manufacturing	52	50	42	53	51	42	53
Materials	90	77	Rank Not Published	Rank Not Published	Rank Not Published	Rank Not Published	75
Mechanical	104	98	105	89	88	109	84

Discussions between OIRA and Schools & Colleges

- Law School
- College of Engineering
- School of Business



OIRA's Ranking Simulation Tool developed this past winter

Worksheet is protected. Enter password **oira** to unprotect the worksheet

US News Law Ranking 2021 Simulation (based on WSU data)													
<i>n=193</i>	Assessment 25%	Judges Assessment 15%	Median LSAT 12.5%	Median UGPA 10%	Acceptance Rate 2.5%	Graduation Employment 4%	10 Month Employment 14%	Bar Passage 2%	Library, Support Expenditure per student 9.75%	Student, including Financial Aid 1.5%	Faculty Ratio 3%	Library Resources 0.75%	
<i>WSU Ranking</i>	<i>Peer assessment score</i>	<i>Lawyer and Judge Assessment Score</i>	<i>Median LSAT score for all program entrants</i>	<i>Median undergraduate GPA for all program entrants</i>	<i>Acceptance rate</i>	<i>Employment rate at graduation</i>	<i>Employed 10 months after graduation (full- time, J.D. required or J.D. advantage)</i>	<i>Bar passage rate in jurisdiction (first-time test takers)</i>	<i>Expenditures per student for instruction, library and supporting services</i>	<i>Expenditures per student for financial aid and other items</i>	<i>Student/faculty ratio</i>	<i>Number of volumes and titles in library</i>	
WSU 2021 ORIGINAL	83	2.2	2.6	159	3.56	44.26	51.8	85.1	76.1	46,900	20,043	7	1,482,742
Input Delta Value	0	0.0	0.0	0	0.00	0.00	0.0	0.0	0.0	0	0	0	0
WSU SIMULATION	83	2.2	2.6	159	3.56	44.26	51.8	85.1	76.1	46,900	20,043	7	1,482,742
Law School Ranking Change	0												

For Acceptance rate and Student-Faculty Ratio, Please input (-) value for improvement

Input any delta value in the green color cells and observe changes in yellow color

Each scenario below would have improved the WSU's LAW Ranking by 1.

- 1) Median LSAT : from 159 to 160
- 2) Media UGPA: from 3.56 to 3.6
- 3) Decrease Acceptance rate by 1.5%
- 4) Increase at Graduation Employment from 51.8% to 52.8%
- 5) Increase 10 Month employment from 85.1 to 85.3%

The simulation is not perfectly accurate due to missing data issues and other correlations between indicators. This simulation is to provide a rough picture of what would happen if we had different values for U.S. News Ranking Criteria.

Any of these scenarios would have led to one US News Rank improvement for WSU holding other institutions' factors constant.

(In these examples, we did not take into account possible correlation between the factors.
(e.g. LSAT mediation increase might be accompanied by increase in UGPA or changes in other factors).
* The scenario examples are assuming only one factor change while other factors remain unchanged. The combination

* Notes *

- 1) Indictors like Expenditure and library Resources are transformed using natural log (U.S.News. Methodology)
- 2) Use Z score to standardize data before weighting for each sub indicator
 $Z\text{-score} = (X-U)/SD$
 \bar{X} = each school's data point for that particular indicator in that category only
 U = average of that indicator for that year of reported data
 SD = standard deviation of that indicator for that year of reported data in the school's category
- 3) Overall Z score= Z Peer Assessment*0.25+ Z Lawyer & Judges Assessment*0.15+ Z Media LSAT*0.125+ Z median UGPA*0.1+ Z Acceptance Rate*0.025*(-1)+ Z At Graduation Employment*0.04+ Z Bar Pass*0.02+ Z Average Expenditure per student *0.0975+ Z Other Expenditure per student *0.015+ Z Student-Faculty Ratio *0.03*(-1)+ Z Library Resources *0.0075
- 4) Rank is simulated by ranking total Z score