

Annual Report - 2023-24

Office of Institutional Research

Binghamton University



BINGHAMTON UNIVERSITY
STATE UNIVERSITY OF NEW YORK

Office of Institutional Research

Mission / Purpose

The mission of the Office of Institutional Research is to support the University's mission through the collection, analysis, interpretation, and dissemination of institutional data. We provide contextually relevant information to both internal and external constituents in support of institutional effectiveness including accreditation, planning, policy analyses, and decision-making.

Major Functions

As summarized below, our major functions center around mandated reporting, participation in ranking and benchmarking surveys, enrollment reporting and analysis, maintaining the OIR data warehouse and producing data reports and analyses to promote university wide policy and decision making.

Mandated External Reporting	45 submissions
Ranking and Benchmarking Surveys	24 surveys
Maintenance of IR data warehouse	9 'mega' files, containing over 4 million records of reported data (not including dozens of intermediary snapshot data files)
Other Internal Reports/Dashboards, Enrollment Reports, & Ad Hoc Requests	250+

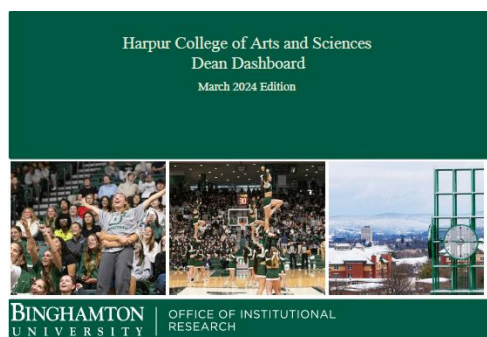
Mandated External Reporting

OIR manages numerous university-wide federal/state/system data reporting requirements, including the Integrated Postsecondary Education Data System (IPEDS) Surveys, Middle States Commission of Higher Education (MSCHE), National Collegiate Athletic Association (NCAA), New York State Education Department (NYSED), SUNY Institutional Research Information System (SIRIS) data submissions, etc. During 2023-24, OIR completed 45 mandated reports. Among them, 19 were SUNY SIRIS reporting, 9 were NYSED reporting, 11 IPEDS reporting, 3 NCAA reporting, and 1 MSCHE and 2 other regional accreditation agency reporting.

Ranking and Benchmarking Surveys

In addition to providing mandated data and reports, OIR provides data for various external agencies for national and international ranking or benchmarking purposes that include but are not limited to: U.S. News & World Report, College Board, Council of Graduate Schools (CGS), Barron's College Profile, Times Higher Education, Princeton, Peterson's, and Business Journal Survey. These questions range from simple enrollment inquiries to more complex analyses on particular topics. In addition, OIR annually facilitates the collection and reporting of faculty compensation data to American Association of University Professions (AAUP) and the Oklahoma Salary Survey.

Dashboard Reports

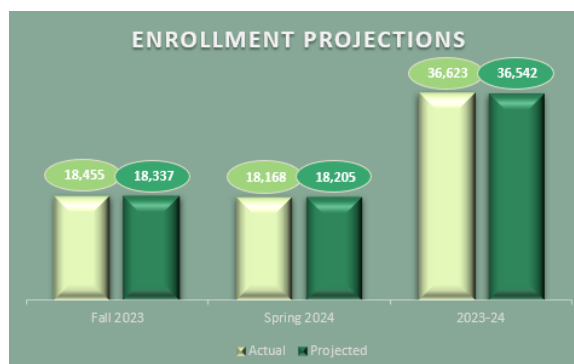


OIR annually collects, organizes, monitors and maintains university- wide, school-level, and department level strategic indicators that align with Road Map metrics/indicators/initiatives. Some examples of this work include the Dean’s Dashboard reports and Departmental Profile Dashboard reports. The primary purpose of these reports is to provide Binghamton administrators, faculty, and staff with a flexible report of recent activities and trends of the institution in order to assist in annual goals and outcomes, program review, accreditation, etc. Dashboard

indicators consist of a comprehensive set of measures that are aligned with the mission of Binghamton University as well as with University Road Map Strategic Priorities (SP). Both Dean’s Dashboards and Departmental Profiles represent multi-year data on 100+ variables. During 2023-24, OIR generated and published six Dean’s Dashboards and 41 Departmental Profiles.

Enrollment and Tuition Revenue Projections

One of the responsibilities of the Office of Institutional Research (OIR) at Binghamton University includes assisting senior administrators with the preliminary budget setting process. One of the key elements of this process is to predict enrollment as well as tuition revenue for the current and future academic years. As this responsibility has manifested itself, it is important that OIR has an accurate, independent tuition revenue forecasting model. OIR uses multiple methods to estimate enrollment for continuing students. More specifically, we have been using two particular methods - Average Return Ratio Model and Logistic Regression Model consistently for the last ten years in order to obtain accurate enrollment projections.



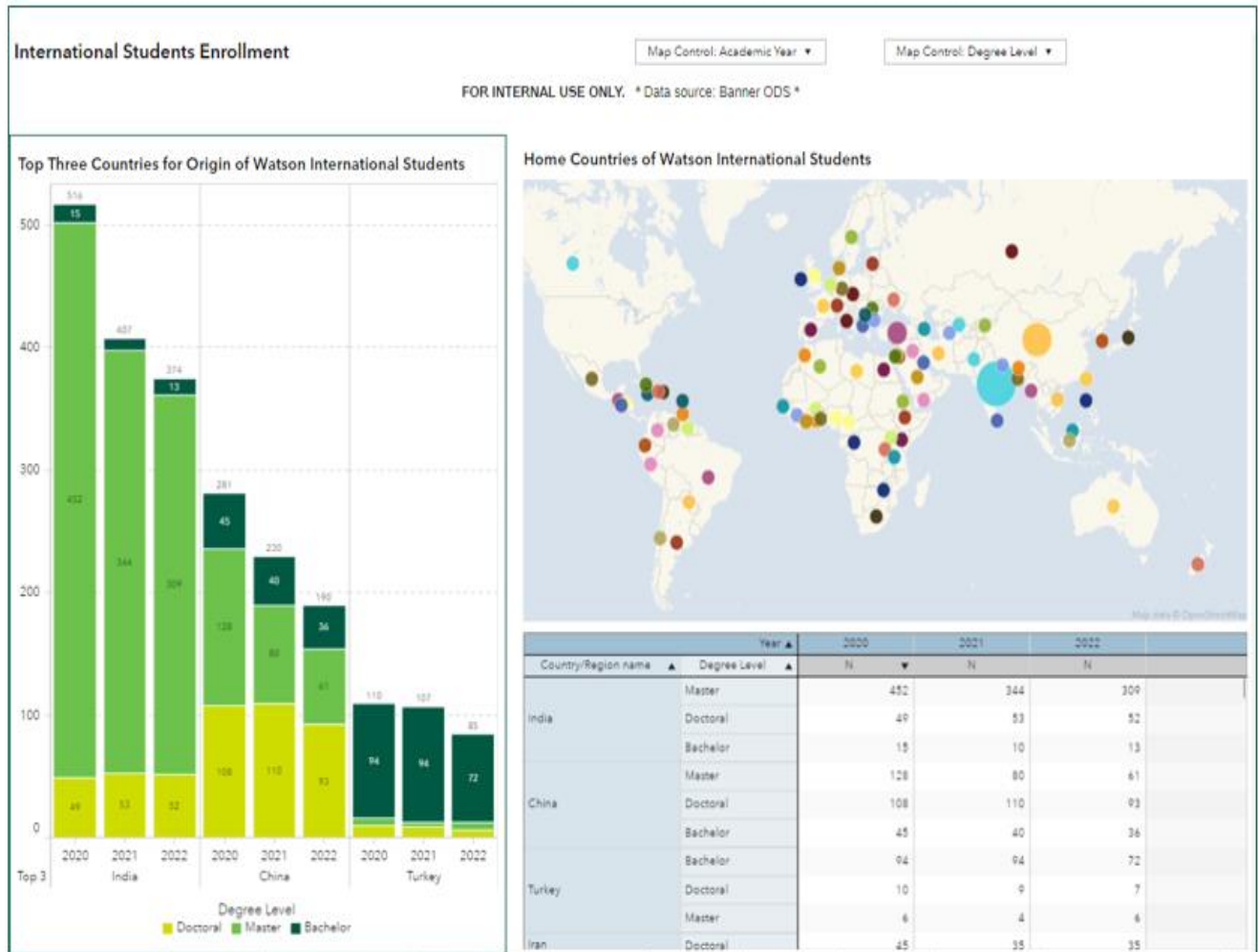
Additionally, OIR uses a ‘projections and explorations’ model to estimate the tuition revenue forecast based on several relevant enrollment numbers: anticipated enrollment for new and continuing undergraduate and graduate students, and anticipated undergraduate and graduate tuition and fees. The graduate and undergraduate tuition and fees are projected separately by Resident (in-state) and Non-Resident (out-of-state), part-time (PT) and full-time (FT) students and then added together. We have undertaken an initiative to improve the tuition revenue model that will provide estimate college/school level tuition revenue by the variables mentioned above. The EPM target is to provide the projected enrollment numbers by the SUNY deadline with less than a 2% error rate. The error rate for Fall 2022 enrollment projection was 0.00% (accurately projected) and the error rate for Spring 2023 enrollment projection was 0.22% (over projected). For 2023-24 FY, the total projected enrollment number was 36,240 and 36,201 students were actually enrolled, an accuracy rate of 99.89%.

Revenue and Expense Analyses

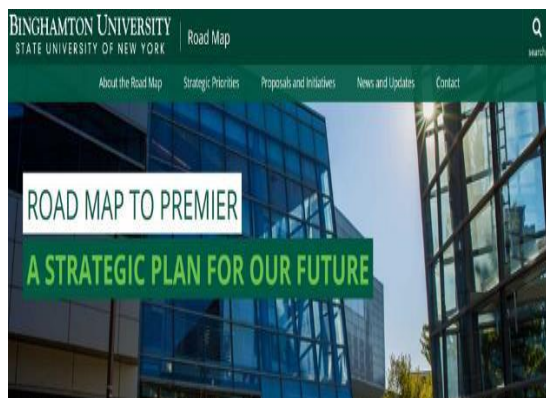
In concert with the Business Office, OIR examines revenues and instructional spending by academic program for decision support and planning purposes. This also includes scholarship trend and tenured/tenure track faculty position analysis.

SAS Visual Analytics Dashboards

Over the recent past, OIR has developed several new interactive dashboards, including a Watson's Dean's comprehensive dashboard, summer and winter enrollment daily tracking, CLT summer and winter fund disposition allocation, employee diversity and inclusion, and revenue scholarship enrollment modelling (RSM). In addition, OIR manages and maintains several interactive dashboards for other functional offices (i.e., Athletics, Business Office, School of Management, Services for Students with Disabilities, and Decker College of Nursing and Health Sciences).



Binghamton University Road Map



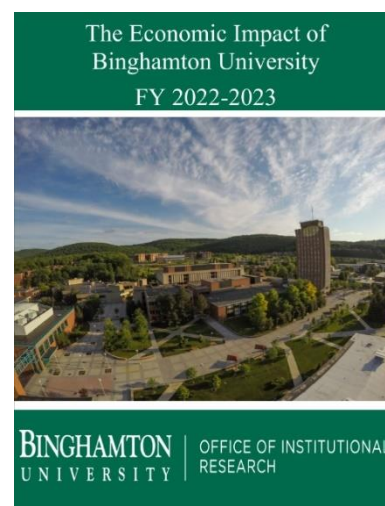
One of the overarching OIR goals is to support University Road Map planning processes to achieve institutional goals, objectives, and initiatives. In this endeavor, OIR makes sure that requested data needs and supports are provided in a timely and efficient manner. These include providing Deep Dive presentation related data as requested by the Road Map Steering committee and providing all Road Map University Initiatives and Divisional Initiatives related data requests and analyses to advance the University outcomes.

Attrition and Graduation Table

The Attrition and Graduation Table is a very complex and comprehensive report that provides information on students' attrition rate at the end of first, second, and third year for ten cohorts and on the 4-year, 5-year, and 6-year graduations rates for the same cohorts. Initial cohorts include new first-time full-time degree seeking students entering in the fall semester. Exclusions are those students who have left the university for a reason allowed by IPEDS reporting. Each cohort is then broken down by numerous demographics, financial aid, and admission criteria. These criteria include gender, ethnicity, residency, school, special population, adjusted gross income, Pell eligibility, high school average, SAT scores, 1st semester GPA, Gateway courses taken during 1st semester, etc. This is a critical report that demonstrates overall university student outcomes and that of each sub-group of student population.

Binghamton University Economic Impact Study

The Economic impact study is a useful tool for higher educational institutions to examine their effect within their local economies. Binghamton University is located in the Binghamton Metropolitan Statistical Area (MSA), which includes Broome and Tioga counties. The presence of the University in these communities generates a complex set of economic activities. Each year OIR collects, analyzes, and generates a report of the full impact that Binghamton University has on the local, regional, and statewide economy. This study applies the final demand multiplier approach of the input-output model in IMPLAN to estimate the economic impact of Binghamton University. The study calculated that during 2022-23, Binghamton University's direct and associated expenditures resulted in an overall economic impact of almost \$1.6 billion on New York State and about \$1.4 billion on the Binghamton MSA. <https://www.binghamton.edu/offices/oir/data-analysis>



Ad Hoc Data Requests and Recurring Projects

OIR is regularly called upon to assist university stakeholders and external constituents in answering questions about the university. OIR also receives external data requests that come through FOIL. These questions range from simple enrollment inquiries to more complex analyses on particular topics for a number of individuals or offices/entities including, but not limited to, the President, Provost, CFO, Vice Presidents, Academic Deans, Department Chairs, and numerous faculty and staff. In addition to these, OIR has identified some data projects that need to be done every semester or annually. During the 2023-24 FY, OIR has completed over 225 ad hoc data requests and recurring projects.

Service to the University

In addition to their work responsibilities, all members of OIR staff provide services by serving on different committees and taskforces across the university. During 2023-24, OIR members served on several significant committees including the Exclusively Online Program Implementation Committee, the POGO Banner Performance Work Group, various hiring search committees, and the Professional Staff Senate.

Knowledge Dissemination and Service to the Profession

One of OIR's points of pride is the service that it provides to the institutional research profession and the higher education community at large. OIR staff members hold memberships in the Association for Institutional Research (AIR), the North East Association for Institutional Research (NEAIR) and the SUNY Association for Institutional Research and Planning Officers (AIRPO). During 2023-24, 100% of OIR staff attended at least one conference/training for professional development purposes including annual conferences presented by SICAS, AIR, and SUNY AIRPO and webinars in AI Solutions to Higher Education and Harnessing Data to Support Holistic Student Success, among others.

Questions

If you have any questions, please contact Dr. Meng Chen, Director of Institutional Research, at mchen36@binghamton.edu.