Institutional Data
Initiatives

Mary Lelik
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Office of Institutional Research and Planning
1. Usable information
2. Access to reliable analytical data and tools for inquiry
3. Advocate for data quality, value & integrity
4. Planning support
5. Assessment support

6. Manage compliance
7. Ensure timely, accurate and thorough reporting
8. Facilitate best data practices
9. Maintain data quality standards
10. Engage in the profession
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OIRP Strategic Goal 2

Build data collections and provide appropriate training and tools to facilitate access to institutional information
Strategic Objectives

- **Expand accessibility** to discrete population files that facilitate retrieval of institutional information

- **Maintain distinct repositories** of cross-functional information that allow analysis across operational data sets

- **Develop and define unique on-line applications** to capture and disseminate information needed for planning and evaluation
- ClassEval Dashboard
- Future Plans Survey Results
- Institutional Data Verification
- Enrollment Planning Tool
OIRP Post Graduate Employment Information

NC State's Future Plan's Survey Results

Select College or Academic Program

After selecting a college or academic program, charts and tables will provide detailed information from the most recent NC State Future Plans Survey, including the number of graduates going on to grad/professional school, the number accepting full-time employment, and the average starting salary.

University Quick Facts

How Many Reported Salary? 766
Average Reported Salary $49,535
College with highest reported salary: College of Engineering
Avg reported salary for this college: $62,630

Summary of All Colleges

Average Reported Salary by College

- University College
- College of Textiles
- College of Sciences
- College of Natural Resources
- College of Management
- College of Humanities & Social Sciences
- College of Engineering
- College of Education
- College of Design
- College of Ag & Life Sciences

0 10000 20000 30000 40000 50000 60000 70000
Average Salary
University Average
• Estimates impact of new student cohorts on total enrollment

• Facilitates dialogue and discovery

  • Current target assumptions are for discussion purposes only

  • College level target discussion is only beginning

• Provides instantaneous enrollment estimates

  • More detailed analysis provided later
• College Annual Review
• Department Planning
• Program Evaluation
Welcome

Institutional Data Profiles
Information based on NCSU planning data

Enrollment Projections
Allow for the entry of Enrollment Projections and report enrollment history

OIRP Project Log
Log for all OIRP projects
Institutional Data Profiles

Profile Reports

College Annual Review
This summary report allows for the viewing of many different metrics for each college within NC State over a ten year period.

Provost Report
This report gives detailed breakdowns of each college in a single summarized report.

10 Watauga Club Drive, 300 Peele Hall, Campus Box 7002, Raleigh, NC 27695.
Contact Us

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Institutional Data Profiles

College Annual Review

Choose College For Review

14 - College of Engineering

*Note: Only departments with data shown

10 Watauga

All Departments

College of Engr-Dean's Office (140101)
Chemical & Biomolecular Engr. (140201)
Civil, Const & Env Engineering (140301)
Electrical & Computer Engr. (140401)
Engineering Research (140501)
Fitts Dept Industr & Syst Engr (140601)
IES Operations (140701)
Materials Science &Engineering (140801)
Mechanical & Aerospace Engr (140901)
Minerals Research Laboratory (141001)
Nuclear Engr (141101)
Nuclear Reactor Program (141201)
Engineering Online (141601)
Computer Science-Engr (141901)
I.E. Masters Prg-UNC Asheville (142001)
Graduate Research Center (142101)
Oprs Research-engr (142301)
Integrated Mfg Sys Engr (142401)
Center For Adv Electronic Mat (142501)

Update Review
### Choose College For Review

- **14 - College of Engineering**
- **Electrical & Computer Engr. (140401)**

### College of Engineering - Electrical & Computer Engr. (140401) Snapshot Taken 06/23/2015

#### Download Options:
- Data
- Definitions

#### Review Areas
- Summary
- Total Annual SCH
- SCH Majors and Non-major by degree
- Regular Term SCH
- DE SCH
- DE SCH (delivered in summer)
- Summer School SCH
- Student Success
- Personnel, HC
- Tenure and Tenure Track Diversity, HC
- Personnel, FTE
- Space, Assignable sq ft
Next Steps

- Web site redesign
- Accreditation and Assessment Support
- Shared Solution for Faculty Activity Reporting
- Roadmap for Institutional Analytics Data Hub
Forrester Research says a distributed architecture of data repositories allows analysis of more varied information.
Ad Hoc Analysis Process

Step 1: Data Request
- Question
- Direct Question, Ad Hoc, or Help Ticket

Step 2: Data Gathering
- Analyze Request
  - Access Student Information System: Oracle Database
  - Other Research Resource: IPEDS, Clearinghouse, etc.

Step 3: Data Output
- Output to Excel

Step 4: Visualizations
- Tableau
- Pivot Tables
- SAS Visual Analytics

Output to End User

Custom SQL
- Custom Query Builder
- Admin Reports
- My Pack Portal
- SAS 9.4
The Data Analysis Workflow
Visual Analytics Dashboard
Data Visualization
Prospective Cohort Enrollment Flow and Degree Progress

- Not Enrolled
- Enrolled Same College
- Enrolled Other College
- Graduated Same College
- Graduated Other College
Data Visualization
Fall to Fall Undergraduate Enrollment Change

- Fall 2013 (Census): 22591
- Graduates: 4851
- Suspensions: 747
- Withdrawals: 1578
- Internal Transfers (Out): 1795
- Internal Transfers (In): 1795
- New Freshmen (Spring 2014): 66
- New Transfers (Spring 2014): 403
- New Freshmen (Fall 2014): 4374
- New Transfers (Fall 2014): 1253
- Readmit: 839
- Other: 238

- Fall 2014 (Census): 22588

Student Head Count
Data Visualization
Addressing the Six Year Graduation Rate Gap
Transform Data and Analytic Resources: *Strategic Alignment*

- **Enhance** organizational excellence by creating a culture of constant improvement

- **Improve** institutional data integration and analytic capacity
Transform Data and Analytic Resources: 
**Current State and Gaps**

• **Rapidly growing volume of** unstructured and semi-structured **data** from a range of internal and external sources

• **Decentralized systems** designed to meet business requirements create inconsistencies in how data are collected and stored
Transform Data and Analytic Resources: Strategic Initiatives

• **Create an Institutional Data Hub** so campus users can process and integrate information from multiple data sources across the university

• **Establish a Data Governance Group** to develop a common data vocabulary and bridge the gap between functional data owners at the institutional level
Transform Data and Analytic Resources: *Performance Indicators*

- **Address high-level management information needs** without imposing unnecessary constraints on units

- **Increase productivity** by focusing on data analytics instead of data management
The process will focus on placing business objectives, initiatives, and projects on the roadmap.
Thank You!