# Using Data to Inform, Persuade, and Make Decisions

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### Why be data-savvy?

- •To better manage your unit
- •To know what others know about you
- To respond to inquiries
- •To avoid reinventing the wheel

### Our Goals for Today

- •Learn about the data on the Management Information web site & other sites
- •Understand the value of the data for the management of your unit
- •Retrieve the data and move it into Excel for further analysis

Set a bookmark today:

http://www.dmi.illinois.edu

### Departments and Executive Officers

- •Department addresses & phones
- Executive officers
- Staff directories
- •Department URLs
- •Department codes (old and new)

### Departments and Executive Officers

### Example/Demo 1

- Find your own unit and click on the "Staff" link
- Move the staff directory for your department into Excel

### Student Enrollment Reports

- "Official 10-day" enrollments
- •Final Statistical Abstract: campus totals, use for general information about campus.
- •Enrollments by college, dept, program: degree, major, concentration, class, gender, race, citizenship, residency

### Student Enrollment Reports

Typical uses

- Trends in time by program
- Survey responses
- Grant proposals:

institutional characteristics

- All courses, sections, instructors, IUs since 1987
- Course history is tracked despite changes in rubric or number.
- •Helpful FAQ explaining course processing & accounting.
- Many ways of viewing the data

Example/Demo 2

Summarize IUs generated by each faculty member paid by your unit for last year using an Excel Pivot table

Faculty Teaching History

• For P&T documentation

For annual evaluations

### Example/Demo 3

Find all courses taught since 1987 by one faculty member.

Look at the P&T format and the table format.

Example/Demo 4

Get a summary of all offerings of NRES 293 (or other course) since 1987.

### Example/Demo 5: Six-Ten Report

- Courses not offered in the past three years (fall, spring, summer terms, on- and off-campus)
- Courses failing to "make" in the average of the last two offerings:
  - 10 students for 100-400 level
  - 6 students for 500, 600, 700 level

### Course/section Anomaly Report

Normal: instructor is paid on state funds from the unit offering the course.

Anomaly: anything else!

Anomaly reports are available in Course Information System, you will be asked to look at them twice during the year.

## Two Course Accounting Systems

- 1. Credit for **offering** a course
  - Determined by controlling dept
  - Crosslisted Courses controlling dept gets credit
  - Used for external reporting
  - Internal reporting: (class size, who is teaching....)

### Two Course Accounting Systems

- 2. Credit for paying for a course
- Determined by dept paying instructor
- Must be a dept **paying** the instructor (If courtesy no pay we use the offering dept)
- Used for internal reporting
   (budget allocation, \$ per IU, IU per FTE)

Ten years of data summarized by department, college, and campus:

- Budgets & expenditures
- FTE and headcount staff
- Student enrollment, qualifications, retention, graduation rates
- Course enrollments & IUs
- much, much more!

## Campus Profile – general notes

- Each page can be downloaded to Excel with a simple button
- Choose years going up or down
- Print option available on each page

# Campus Profile Types of Reports Available

#### Standard Profile

- One unit per page
- Most commonly used items

## Campus Profile Types of Reports Available

### Strategic Profile

- One unit per page
- Two sets of Metrics

Campus-wide & College-specific

• Three kinds of Charts

Dashboard, Campus-wide Chart, Unit-Specific Chart

# Campus Profile Types of Reports Available

### Custom Reports -- You select:

- Units
- Items

### Example/Demo 6

- Retrieve a standard Campus Profile for the campus.
- Retrieve a *Strategic Profile* for the College of ACES (or your choice of colleges)
- Look at the graphs & dashboard for the Strategic Profile

### Example/Demo 7

Create a custom report of all items for the College of ACES to view in your browser.

Look at all the drilldowns!

### Example/Demo 8

Graph the terms-to-degree for bachelors, masters, and doctoral students (lines 4720-60)

### Proposal Data System

All proposals submitted from FY96

- By Department
- By Agency/Sponsor
- By Investigator

Report may be summarized by department or by agency.

### Proposal Data System

Example/Demo 9

You are negotiating with the Grainger Foundation for a grant.

Is it likely you will get any ICR?

### Proposal Data System

Example/Demo 10

Find all grant proposals written by a faculty member in your department.

### Tuition, Waiver, Appointments

What tuition is being charged to your students and what kind of waivers do they have?

How much will you need to pay another department for the tuition for the graduate assistant you've hired?

### Activity Reporting System

- •Mandated by Federal and state reporting requirements
- •Activities and cost sharing percents entered by your staff
- •Useful data: current & obligated pay; appts and teaching assignments; salary & appt history to 1988
- •Authorized users can change the paying dept for an instructor's course

### Peer salary study

Compares your faculty salaries with selected peer departments at other institutions.

### Faculty Salary Equity Study

Faculty salaries as a function of:

- •discipline
- •rank
- •years from degree
- •first rank at UIUC
- •time to tenure
- •gender
- race
- •administrative post

Which factors contribute significantly?

### Faculty Salary Equity Study

#### Two issues:

- 1. Campus-wide, do gender and race affect salary significantly?
- 2. What salary is predicted for each individual and how does it compare to the actual salary?

#### Databases outside of DMI

### Academic Analytics:

- Faculty scholarly productivity database
- Summary data & graphics for each department and doctoral program in U.S.
  - Books
  - Citations
  - Journal Articles
  - Grants
  - Awards

#### Databases outside of DMI

### Decision Support data warehouse

- Standard reports: Eddie
- Business Objects: drag & drop create reports

### Planning & Budgeting

- IPEDS: enrollments, degrees, faculty
- Campus databook: Retention, new student characteristics
- Underrepresented report minorities & disabled students

## Questions????