

# National Ranking of CSE

- **Objective** - to work toward the ranking of our department and its academic programs by a well recognized ranking organization.
- **Goals** – to be listed...in 3-6 yrs?
  - Overall National Ranking
    - Top 100 ?
  - Among Hispanics Institutions
    - Top 5 ?
  - Other ?

# College Rankings : Why?

- College education is an important and costly investment
  - Prospective students look at them!!!
- Comparative merits of the educational programs should be available
- Rankings provide an objective guide that allows comparison of the academic quality of schools
- This sort of information is readily available for many other types of investments

# Ranking Organizations/Sources

- Several organizations exist that rank US colleges, universities and graduate schools.
- Dissemination
  - newspapers
  - popular magazines
  - books
  - college guides
  - scholarly journals
  - government publications.

# Categories

- Universities in general
- Academic programs
  - Undergraduate
  - Graduate

# Areas Included in Assessment

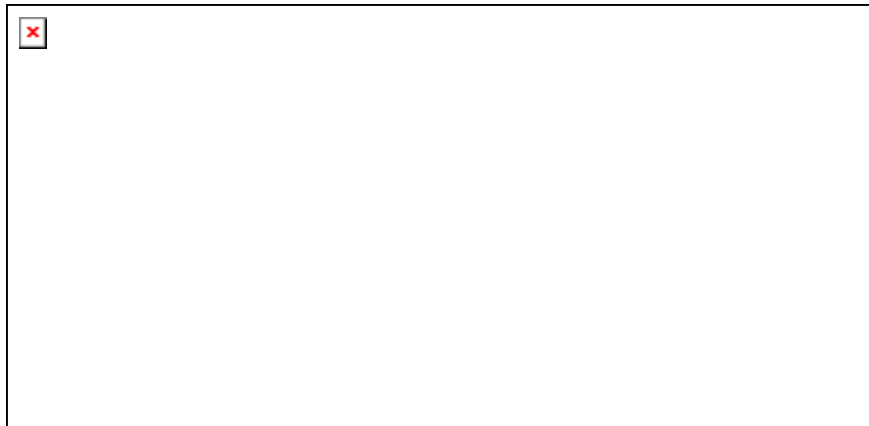
- Admission requirements
- Graduation rates
- Selectivity
- Academic offerings and policies
- Student life
- Annual expenses, financial aid, scholarships and grants.

# Some Ranking Organizations

- **Asia Inc.** ( Irregularly) .
- **BusinessWeek** (Biennially)
- **Educational Rankings Annual** (Annually)
- **The Gourman Report** (Annually)
- **Money Magazine** (Annually)
- **Princeton Review's Best 311 Colleges** (Annually)
- **Research-Doctorate Programs in the United States, Continuity and Change**
- **Science Watch** (Irregularly)
- **US News & World Report's America's Best Colleges** (Annually)
- **<http://www.allengineeringschools.com/>**

# US News (Universities)

- **Weights for national universities and liberal arts colleges**



- This graph shows the relative weights assigned to each category of indicator for national universities and liberal arts colleges.

# US News (Engineering)

- ranks undergraduate programs accredited by the ABET
- based solely on the judgments of deans and senior faculty who are familiar with the program
- separate rankings for schools that offer doctoral degrees in engineering and schools who don't

# US News (Graduate Engineering)

- **Quality Assessment (weighted by .40)**
  - **Peer Assessment Score (.25)**
  - **Recruiter Assessment Score (.15)**
- **Student Selectivity (weighted by .10)**
  - **Mean GRE Quantitative Scores (.0675)**
  - **Acceptance Rate (.0325)**

# Graduate Engineering Schools

- **Faculty Resources (weighted by .25)**
  - **Student to Faculty Ratio**
    - full-time doctoral students to full-time tenured or tenure-track faculty (.075)
    - full-time master's students to full-time tenured or tenure-track faculty (.0375) in the fall of 2004.
  - **Percent of Faculty that are NAE Members (.075)**

The proportion of full-time tenured or tenure-track faculty who are members of the National Academy of Engineering in the fall of 2004.
  - **Doctoral Degrees Awarded (.0625)**

The total number of doctoral degrees granted in the 2004 school year.

# Graduate Engineering Schools

- **Research Activity (weighted by .25)**

- **Total Research Expenditures (.15)**

- The definition for research expenditures is set by the American Society for Engineering Education.

- **Average Research Expenditures Per Faculty Member (.10)**

- The average amount of externally funded engineering research expenditures per full-time faculty member averaged over the 2003 and 2004 fiscal years.

# Plan of Work of CSE@UPRM

- Compile information needed to pursue ranking evaluation by existing top ranking organizations
  - Determine ranking requirements
  - Determine ranking procedures
  - Determine where we stand
  - Compare with current rankings (where we can position ourselves)
- Present our plans to university officials
  - Dean, chancellor, president
- Have a department permanent committee in charge of this process and the ABET accreditation process