ECE Department Retreat 9/23/06

- Who we are—The Brutal Facts
- Who we want to be in 10 years
- How we get from here to there

Who We Are

- Small program in liberal arts university
- Expensive
- Lots of competition—national and regional
- Predominately undergraduate
- Heavy student focus
- No University service load

Who We Want To Be In 10 Years

- Ph. D. program
  - Researchers—3 courses/year
  - Teaching faculty—6 courses/year
  - $500,000 research funding
- Facilities
  - Lab/office space
  - Research equipment
  - Staff and support personnel
Who We Want To Be In 10 Years

- Maintain Christ-centered worldview
- Maintain student focus
- Have visibility and community integration, provide public service
- Support small research/development projects
- Graduate 50 ECE majors/year

Who We Want To Be In 10 Years

- Develop service loads
  - Physics
  - Mechanical Engineering
  - University "How Things Work"
- Enhance department expertise
  - Avionics and reconfigurable computing
  - Robotics and controls
  - Signal and image processing
  - Communications
  - Computational intelligence
  - Microwave applied metrology

How We Get There

- Joint Ph. D. proposal
  - Obtain assistantships for Ph. D. TA's
  - Use Ph. D. TA's to help handle teaching load
  - Increase grad student financial support
  - Increase scholarships
  - Endowed chairs
- Manage IP issues
- Technical assistance center

How We Get There

- Enrollment management
  - Cap
  - Standards
  - 2+2 programs
- Develop service loads with Honors College
- Additional positions
  - Lecturer
  - Staff
  - Tenure-track faculty
- Improved summer support—non-research faculty