INSTITUTE OVERVIEW

• GT campus a dynamic place; full of energy
• Nearly 17,000 very bright students
  o Among top 5 in nation in SAT scores
  o 11,500 undergrads; 5,300 grad students
• Known for engineering
  o Consistently ranked among top 5 programs
  o Nation’s largest engineering program
  o Leader in graduating women, under-rep minorities
• Also have prominent, highly regarded programs in
  Sciences     Management
  Computing    Architecture
• And unique liberal arts program that leverages technology in creative ways
  o Interdisciplinary degrees in digital media
  o 2 endowed chairs in poetry (of about 20 in the nation)
  o Pre-law program with technology focus
  o Over 1,000 students engage in music at any given time
• Although a research university, have an undergrad mission on behalf of the state of Georgia; take it seriously
  o One of nation’s most demanding academic programs, but work hard to help students succeed.
  o Hesburgh Award – quality teaching
  o Offer undergrads the advantage and excitement of participating in research enterprise; over 40% engage in structured research activities
• Largest university research enterprise in Georgia; among nation’s top 40
  o Research volume over $400 million
  o Leader in emerging interdisciplinary fields like biotechnology, nanotechnology, logistics, sustainable technology, manufacturing technology
  o 15 national centers of excellence
• GT’s international dimensions
  o Metz, Singapore; considering Shanghai, Bangalore
  o Many working partnerships with universities from Great Britain to China
  o A third of undergrads study abroad; international internships, co-op assignments
  o Strong modern languages program – 8 languages; joint degrees in foreign language + global economics, foreign language + international affairs
  o Master’s degree program for employees of GE center in Bangalore
AEROSPACE ENG OVERVIEW

- Got off to an early start, offering first courses in 1926
- 1930 – became one of seven universities in nation to receive major Guggenheim Foundation grant for aeronautical program. Put us in good company at the top right from the start:
  
  MIT  Michigan  
  Cal Tech  U Washington  
  Stanford  NYU

- Today acknowledged as one of top 5 programs in nation
  o Traditionally one of GT’s best engineering programs
  o About 1,100 AE majors; 700 undergrads; 400 grad students.
  o Areas of research:
    Aerodynamics and fluid mechanics
    Aeroelasticity and structural dynamics
    Flight mechanics and controls
    Propulsion and combustion
    Structural mechanics and materials behavior
    System design and optimization

- Recent stamps of approval:
  o Largest of 3 national Centers of Excellence in Rotorcraft Technology
  o 2 NASA-funded University Research, Engineering and Technology Institutes (URETI):
    - Propulsion and Power (make aircraft engines work more efficiently; long-term goal: develop hybrid power systems that work in atmosphere and space – engines in the atmosphere use oxygen from the atmosphere; rocket engines for space use an on-board oxidizer). GT is lead in this one.
    - Third Generation Reusable Launch Vehicles (develop next generation Space Shuttle – a hypersonic space “plane” that can take off from a runway rather than being launched). Univ of Florida is lead in this one.