

MASTER PLANNING
FORT WORTH, TEXAS
JANUARY 2023




CEFE
CAMPUS EFFECTIVE FUTURE EDUCATION

INTRODUCTION
HISTORY
PRINCIPLES
CONTENT
APPROACH
TRENDS
SUCCESS

Campus Master Planning
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WHY DO WE DO IT?



Growth/Decline in Enrollments
Qualitative Issues/Renewals
Improve the Environment
Students Not Prepared
Success of the Programs
Community
Prepare Successors
Legacy (Person/Event/Place)
Mandated by Others
and the list goes on.....


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CAMPUS DEVELOPMENT OVER TIME



1636


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GROWTH OVER THE YEARS



- One Building
- Initial Growth
- Fire/Rebuild
- Land Grants
- Wars
- Sports
- 60's Explosion
- Lost Legacy
- Confusion/Investment
- Information Age




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WHERE ARE WE TODAY?



20,400,000 Enrolled (2017 NCES)

- 62% Full Time
- 38% Part Time
- 28% Private
- 72% Public
- 85% Undergraduate
- 15% Graduate
- 56% Female
- 44% Male


4,625 Degree Granting Institutions (down from 4,724)

- 63% Four Year
- 67% Private
- 34% Public
- 37% Two Year
- 40% Private
- 60% Public

9,424 Institutions of Higher Education

- Wyoming 17
- California 1,246

7,100 Total Institutions (US Department of Education)




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LARGEST UNIVERSITY LANDS



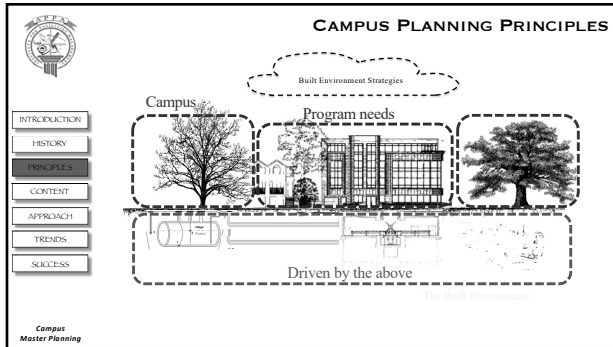
Berry College	27,000	Rome, GA
US Air Force Academy	18,455	Colorado Springs, CO
US Military Academy	16,080	West Point, NY
University of the South	13,000	Sewanee, TN
Penn State University	11,000	University Park, PA
Stanford University	8,180	Palo Alto, CA
Liberty University	7,000	Lynchburg, VA
Michigan State University	5,239	East Lansing, MI
Texas A&M University	5,115	College Station, TX
Tuskegee University	5,000	Tuskegee, AL



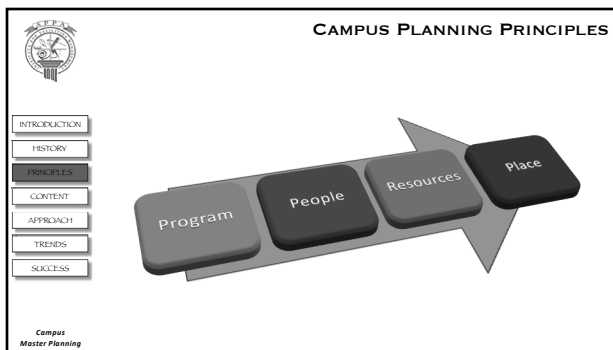
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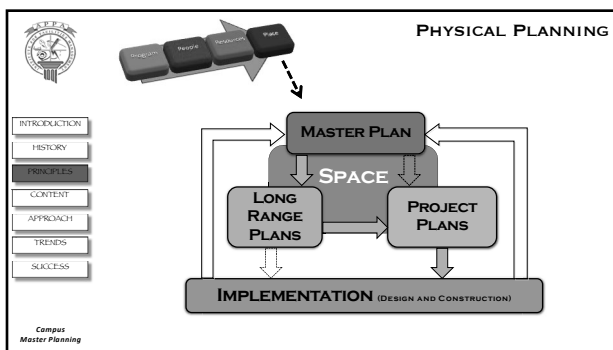
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PHYSICAL PLANNING – MASTER PLANS



- INTRODUCTION
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- Vision/Road Map
- Drives All Other Plans
- Looks Beyond “Window”
- Goals and Objectives
- Design Principles
- The “Foundation”
- Never Implement From Here

IS A PROCESS, NOT A DOCUMENT!

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PHYSICAL PLANNING – LONG RANGE PLANS



- INTRODUCTION
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- Parking
- Circulation
- Landscape
- Bikeway
- Architecture/Design Guidelines
- Space Plans
- Land Acquisitions
- Facility Audit/Bldg. Revitalization



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PHYSICAL PLANNING – IMPLEMENTATION



- INTRODUCTION
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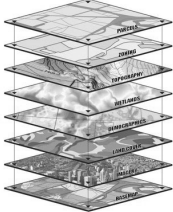
- Budget Requests/Funding Plans
- Life Cycle Ownership
- Funding Plans
- Design
- Construction
- Operate and Maintain



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WHAT IS IN A MASTER PLAN?



- TOPOGRAPHY
- OPEN SPACE
- LAND USE /ACQUISITION
- VISTAS AND VIEWPLANES
- EDGES AND GATEWAYS
- PATHWAYS
- PARKING
- ART DISPLAY
- CAMPUS LANDSCAPE AND VEGETATION
- WAYFINDING
- BUILDING CONDITIONS
- BUILDING USE/NEW BUILDINGS
- ARCHITECTURE
- HISTORIC CONTEXT
- UTILITY DISTRIBUTION AND PRODUCTION


AND THE LIST GOES ON.....

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GOALS ON OBJECTIVES

- Accommodate Programs
- Pedestrian Oriented
- Sense of Community
- Safe and Secure
- Reduce Travel Sequence
- Improve Land Use
- Collegiate Atmosphere
- Links With Community
- Student Centered
- Improve Identity
- Improve Planning Processes




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DESIGN PRINCIPLES


- Create distinctive physical image
- Enrich the experience for all
- Maximize value of physical assets
- Provide facilities to support programs
- Implement plan in a timely manner
- Develop strong foundation
- Complete pedestrian ways
- Increase density
- Introduce more gathering places
- Historic preservation
- Connect multi-modal transportation
- Redistribute parking
- Develop landscape guidelines
- Turn attention away or toward buildings
- Improve campus edges




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FOUNDATION/Framework



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Must Exist **Perpetual Existence**

Base to all Urban Design Decisions **Can NOT be Compromised**

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LAND USE



- INTRODUCTION
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Academic Areas
Student Services
Parking
Residential
Others
Recreation, Athletics and Open Space
Service and Maintenance

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OPEN SPACE



- INTRODUCTION
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Quadrangles/Lawns
Walkways
Athletic/Recreational Fields
Plazas(hardscapes)
Surface Parking Lots
Streets/Service Routes
Campus Edges/ Gateways
Fields/Parks
Lakes/Ponds/Rivers
Conversation Spaces
Gardens/Arboretums
Paths
Vistas
Other

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CIRCULATION



- INTRODUCTION
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Vehicular
Public Service
Commercial
Mass Transit
 Bus
 Train/
 Light Rail/
 Subway
 Shuttles

Golf Carts
Bicycles
Pedestrian
Mobility Impaired
Specific Paths
 Historic Walks
 Walk of Fame
 Art
 Recreation/Public






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BIKEWAYS



- INTRODUCTION
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Types of Routes
 Paths
 Lanes
 Routes
Dismount Zones
Connectivity w/ Community
 Signage
 Rules and Regulations


Parking
 Racks
 Lockers
 Locations
 In Buildings

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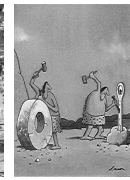

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PARKING



- INTRODUCTION
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Faculty, Staff, Students
Public
Mobility Impaired
Service Vehicles
Commercial Vehicles
Bicycles
Mass Transit




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ACCESSIBILITY



Mobility Impaired Dimensions
Audio Impaired
Visually Impaired
Sensory Clues
Other Issues
Relationship to the Americans with Disabilities Act (ADA)
Universal Accessibility






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LANDSCAPE



Scale of Open Space
 Layering
 Vegetation
 Site Furniture
 Signage
 Wayfinding
 Art
 Lighting
 Architectural Décor
 Landmarks
 Slacking??????





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EDGES AND GATEWAYS

Link to Community
 Identity/Image
 Gateways
 Access Points
 Varying Circulation Systems
 Informal/Formal







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SITE FURNISHINGS



- INTRODUCTION
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Usable
Consistency
Help Architecture
Durability/Vandalism
Low Maintenance
Attractiveness
Cost


Trash Receptacles
Smoking Urns
Dumpsters and Compactors
Waste Sites

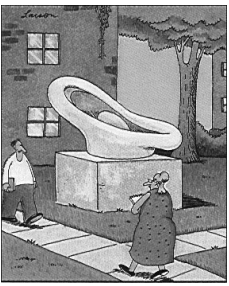
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ART IN PUBLIC PLACES



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Gardens
Wayfinding
Space Definition/ Interest
Education
Maintenance
Funding
Repair
Vandalism




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SIGNAGE AND WAYFINDING



- INTRODUCTION
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Destination Hierarchy
 freeway to destination
Special Events
 kiosks, billboards, posters
Lighting
Signs
Security/Comfort
Sense of Place
 Architectural Icons
 Landscape Features
 Vistas

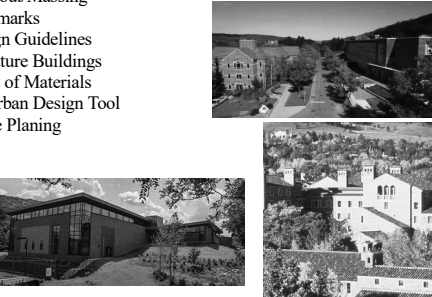


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ARCHITECTURE

- Buildout/Massing
- Landmarks
- Design Guidelines
- Signature Buildings
- Pallet of Materials
- As Urban Design Tool
- Space Planning



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UTILITY INFRASTRUCTURE

- Chilled Water
- Compressed Air
- Electric
- Power
- Lighting
- Natural Gas
- Sanitary Sewer
- Steam
- Storm Sewer
- Telecommunications
- Copper
- Fiber
- Wireless
- Water
- Irrigation
- Potable



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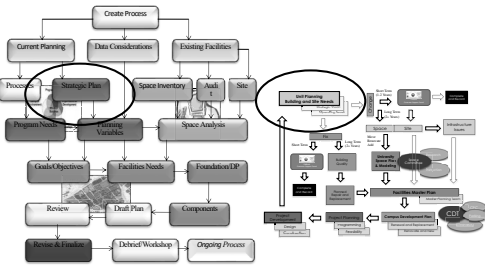
TRENDS

SUCCESS

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BASIC APPROACH



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WHAT DRIVES THE PLAN?

People
 Students
 Faculty
 Staff
 Visitors

Teaching/Research
 Methodologies
 Business Procedures

Technology
 Environment
 Student Life

Mission, Goals, and Objectives
Funding/Resources
Politics
Community
Facility Conditions

What side of the bed your boss woke up on!

Now who do you think the expert is?

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CHANGING PARADIGMS



http://www.youtube.com/watch?v=zZFcDGpL4U


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THE DATA RICH CAMPUS

Business Intelligence
Data Warehouses
Linking Data Sets
GIS Systems



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AUBURN UNIVERSITY
 College of Agriculture Planning Considerations
 Comprehensive Campus Master Plan 2012 Update
 J254, JACS #201013

College/School/Unit Planning Consideration

Issue/Response/Strategic Plan Address	Source	Type	Description	Impact on the Master Plan	
	2002 CMAP Update	Mission	The College of Agriculture at Auburn University is dedicated to educating people and discovering knowledge that improves the lives of all Alabama citizens through our research, extension and outreach programs.		
	2002 CMAP Update	Working	Working is a vital way that allows students, faculty and staff ability to do what they need to. Efficient, desirable, & secure. Quality of facilities and space constraints affect a program's ability to be most effective.		
	2002 CMAP Update	Working	One of the College's strategic initiatives is to increase graduate enrollment.	S	Increase graduate student enrollment.
	2002 CMAP Update	Working	Align College's strategic plans across programs for College's programs and to other partners. Just applying English program with a piece of land doesn't solve issues except with being intentional.		
	2002 CMAP Update	Working	It will be important in the planning process to acknowledge Auburn is a land grant university. With no land grant mission, the College of Agriculture is different than other colleges. One of the guiding principles in the current master plan is to preserve land grant mission. The College needs to make decisions that are important to keep land grant programs that are not easily identifiable.	S	The land grant heritage should be visible in the physical environment.
	2002		The College of Agriculture needs to get students from one end of campus to another for classes. It would help the College to be a more closed campus. The campus is not set		Consider the pedestrianization of the campus core. Support main transit in

Key to Impact on Physical Environment:
 P = Faculty V = Visitors
 S = Staff B = Buildings
 O = Other U = Utilities

Link to Strategic Plan
 Strategic Plan → College Planning → Facilities Plans & MP

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THE MASTER PLAN MUST

- Have Campus Involvement
- Have a Good Design or Scheme
- Appeal to All
- Be Understandable
- Be Timeliness
- Be Flexibility
- Be Fundability
- Have Little Conflicts
- Be Dynamic vs. Static
- Be Comprehensive
- Be Integrated
- Have Community Buy-in
- Have State/Board/Trustees Buy-in
- Be Programmatically Driven
- Be Politically Acceptable

Ownership, Achievable, and Continuous Process

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TIME

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CONSULTANTS

Use of Outside Consultants

Master Planning Long Range Planning Project Planning Design Construction

Scale of Planning

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MEETINGS AND SPECIAL APPROACHES

The good, the bad, and the ugly!

80% Rule

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ORGANIZATION OF THE PLANNING

Reference Information

- Program Information
- Enrollment Plans
- Site Data
- Space Model
- Building Data

Campus Maps and Plan

- Goals and Objectives
- Design Principles
- The Foundation
- Illustrative Plan
- Physical Components

Advantage of Web Based System

- Mapping Attributes (GIS)
- Data Linkages
- Reduced Costs
- Real Time Information/Updates
- Improved Access and Ownership
- Varying Stages of Complexity
- Accountability
- Modeling

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VARYING PLANNING WINDOWS

Academic Facilities

We Must Realize The Tail Wags the Dog

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THANK YOU

MASTER PLAN

LONG RANGE PLANS PROJECT PLANS

SPACE

IMPLEMENTATION (DESIGN AND CONSTRUCTION)

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