UNC CAMPUS
BICYCLING
ENVIRONMENT

BECOMING A BICYCLE-FRIENDLY UNIVERSITY
ENST 698
SPRING 2011

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Background

- Bicycling community on campus
- Benefits of bicycling
- Importance of examining University environment
  - Policies
  - Infrastructure
  - Public Opinion
Project Objectives

- Complete the LAB Bicycle-Friendly University application
- Investigate policies and peer institutions
- Survey the university population
- Compile a database/map of infrastructure
- Provide recommendations for the university
Policy Methods

- League of American Bicyclists (LAB) Bicycle-Friendly University application
- Evaluation of Peer Institutions document
- Recommendations for the University
Name of Applying Institution
- Name of institution/campus applying: University of North Carolina at Chapel Hill
- How many campuses make up this institution? 1
- Does this application include all campuses? Yes
- If no, which campuses are included in this application?
  - City: Chapel Hill
  - State: North Carolina
  - President, Chancellor, or top official (include title): Chancellor Holden Thorp
  - Website: www.unc.edu

Applicant Profile
- Contact Name
- Title
- Address
- City
- State
- Zip
- Phone
- Email

Profile
The data in this section is gathered by the U.S. census. Click here to find the most recent information on your college/university.

1. Type of institution (link to US News definitions) (Public/Private) option for each
   - National University
   - Liberal Arts College
   - Baccalaureate College (four year school with less than 50% of degrees in liberal arts)
   - Technical College
   - Community College
   - Career College
   - Other (If other, describe (50 word limit))

2. Type of Campus:
   - Urban (Small urban setting, town of approximately 50,000)
   - Suburban
   - Rural
   - Other (If other, describe (50 word limit))

3. Population
Infrastructure Methods

- Campus Inventory
  - Noted locations and types of bike racks, showers, lanes and the air pump.

- Visualization
  - Spatial analysis of bike amenities using ArcGIS

- LAB application
Infrastructure Findings

- Bike racks on campus:
  - 442 Racks
  - Total capacity 5170 Bikes
  - 100% of dorms/university apartments, libraries, administration and classroom buildings
  - 83% of recreation centers
  - 63% of parking garages
  - 60% of research labs
  - >1% of transit station bus stops

- Showers, bike pump, bike lane
  - Limited amenities
Bicycle Infrastructure Map

http://www.gismaps.unc.edu/bike/
Purpose: Assess the public opinion of cyclists, pedestrians motorists and Chapel Hill Transit users on the bicycling environment at UNC-Chapel Hill.
Survey Analysis Group

- Created a survey with the help of outside resources
- Surveyed in the Pit
- Piloted the survey with 20 people and collected 119 responses
This brief survey was designed by a UNC-Chapel Hill student team as a capstone project with the Institute for the Environment to assist in the completion of the League of American Bicyclist application. Your responses will help us develop a better assess the bicycling and walking environment on campus.

These surveys are anonymous and do not ask for persona identifying information. There is no personal benefit or harm to you.

For more information, contact: enstbicyclesurvey@gmail.com

Age: ___ Sex: □ M □ F Residence: □ Chapel Hill □ Carrboro □ Other

Classification:
- Student, full-time
- Student, part-time
- Faculty
- Guest/visitor

1. By what mode do you typically travel to campus?
   - Car or Truck
   - Bus
   - Bike
   - Motorcycle or Scooter

2. How far is it from your home to your workplace or school?
   - < 5 miles
   - 5-10 miles
   - > 10 miles
   - I don’t know

3. In a typical week, how many days do you commute to UNC?

4. What is your average time to get to work/school? (door-to-door)

5. What would encourage you to use an alternate form of transportation other than your car?

6. Do you use other forms of transportation, aside from cycling and/or walking to get to campus? If so, what?

7. If you are a cyclist, do you use the bike racks?
   - Never
   - Sometimes
   - Often

8. Is your bicycle registered with the Department of Public Safety?
   - Yes
   - No

9. Do you have any request for the amount or location of bike racks?
   - Yes
   - No
   - Can any requests be?

10. How comfortable are you walking/cycling around campus, given the intermingling of cyclists and pedestrians?
    - Not comfortable
    - Relatively comfortable
    - Comfortable

11. If you were to experience any problems with bike racks or air pumps, would you know how to report it?
    - Yes
    - No

12. Are you comfortable leaving your bike locked up on the bike racks on campus?
    - Yes
    - No

13. Are there any safety concerns that influence your walking/cycling?
    - Yes
    - No

14. How satisfied are you with the biking/walking facilities on the UNC campus?
    - Not satisfied
    - Relatively satisfied
    - Satisfied

15. What issues do you encounter walking/cycling around campus?

16. What improvements would you like to see in the walking/cycling environment in the next five years?

17. What suggestions do you have for improving transportation to, from and on campus?
Findings

- **Sex**
  - Male: 50
  - Female: 69

- **Residence**
  - Chapel Hill: 98
  - Carrboro: 16
  - Other: 6

- **How far is it from your home to your workplace or school?**
  - < 5 miles: 108
  - 5-10 miles: 4
  - > 10 miles: 8

- **By what mode do you typically travel to campus?**
  - Car or truck: 12
  - Bus: 41
  - Bike: 29
  - Walk: 54
Findings

How comfortable are you walking/cycling around campus, given the intermingling of cyclists and pedestrians?

- Relatively Comfortable: 53
- Comfortable: 34
- Not Comfortable: 22
Findings

Relationship b/w Sex and Typical Mode of Travel
What improvements would you like to see in the walking/cycling environment in the next five years?

Six reoccurring themes in the responses

1. Better sidewalks / ground conditions
2. More bike lanes
3. Better night lighting for safety purposes
4. Separate / designated locations for pedestrians and walkers
5. More bike facilities
6. Wider sidewalks
Recommendations

- Administrative structure
  - Reorganize duties, 1 person in charge of bicycling
  - Clear committee structure, feedback mechanism

- Policy and planning
  - Clearer registration, impoundment policies
  - Bicycle master plan

- Infrastructure
  - Service stations, covered/secure bicycle parking
  - “Sharrows” or bicycle lanes
Recommendations

- Advocating for bicycle use
  - Information to incoming students
  - Bicycle safety education

- Enforcement
  - Enforce bicycle laws
  - Stricter standards for motorists

- Town/University relations
  - Collaboratively plan, jointly review projects
Recommendations

- Resources
  - Website with bicycling resources
  - Maps

- Pedestrian/bicyclist relations
  - Dismount zone
  - Traffic laws
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