

Workshop: Integrating LEED, LID, and Policy

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PREREQUISITE: INTRODUCTION TO LID and LEED

COURSE OVERVIEW

Low Impact Development (LID) is typically defined as a stormwater management design framework aimed at minimizing the negative impacts of stormwater runoff. LID includes: mimicking pre-development hydrology, tree conservation, maximizing open space, maintenance, structural practices, and education. LID began as an organized framework in the 1990s. Accordingly, there are procedural, logistical, and legal challenges that should be considered and addressed in order to effectively implement LID.

This course addresses LID in the context of policy and other challenges one may encounter when preparing for LID projects. The POLICY course is designed for planners, engineers, landscape architects, realtors, surveyors, local governments, and anyone else interested in environmentally friendly, cost-efficient developments. **Each student should bring a copy (preferably in a notebook or downloaded onto a laptop) of your community's development ordinance. This ordinance may be a Unified Development Ordinance (UDO), stormwater ordinance, subdivision ordinance, form-based codes (FBCs) or other policy.**

Ordinance sections should include or pertain to:

- Street width
- Street length
- Right-of-Way width
- Cul-de-sacs or Culs-de-sac
- Vegetated open channels
- Parking ratios
- Parking codes
- Parking lots

- Structured parking (if applicable)
- Parking lot runoff
- Open space design
- Setbacks and frontages
- Sidewalks
- Driveways
- Open space management
- Rooftop runoff
- Buffer systems
- Buffer maintenance
- Clearing and grading
- Tree conservation
- Land conservation incentives
- Stormwater outfalls

Upon completion of this course, students should be able to identify local and statewide impediments to the implementation of LID and suggest viable solutions to overcome these impediments to a client, local governing body, or agency. Students should also be able to amend existing policies to reflect LID principles and practices.

This course is organized into the following:

1. Site Scale Policy Analyses
 - a. Parking Standards
 - b. Parking Requirements for Redevelopment
 - c. District-wide and shared parking
 - d. Financing
 - e. Uses of Streets
2. Neighborhood/District Scale Policy Analyses
 - a. Separated Uses
 - b. Street Design
 - c. Street and Roadway widths
 - d. Subdivision Design
3. Regional Scale Policy Analyses
 - a. Governance Structures
 - b. State Level Policies
 - c. Transportation Requirements

This course is the second required course in the LID CERTIFICATION series (for additional information on the LID Certification, please visit bae.ncsu.edu/topic/lid). Upon completion of the INTRODUCTORY and POLICY courses, if an optional course has already been taken and passed, you may advance to taking the LID CERTIFICATION exam.

CLASS FORMAT

The POLICY course is usually one day in length and consists of brief topical lectures with group problem-solving and policy analysis exercises. Students are strongly encouraged to participate in all aspects of the course to the fullest extent practicable. Class participation will contribute to your final grade for the course.

TEXTBOOK, READINGS, and SUPPLIES

There is one recommended textbook that will be used in both the INTRODUCTORY and POLICY courses: *LOW IMPACT DEVELOPMENT: A GUIDEBOOK FOR NORTH CAROLINA*. The book may be downloaded from: http://www.ces.ncsu.edu/depts/agecon/WECO/lid/documents/NC_LID_Guidebook.pdf. There is no charge for this book; however, the book is about four hundred (400) pages in length (please keep this in mind before printing using a standard printer). A notebook with the PowerPoint slides for the course will be provided on the day of the scheduled workshop.

Please bring (1) a writing instrument and (2) a copy of your local development ordinance (either hard copy or downloaded version on your laptop). If you seek professional development credits, please bring a copy of your registration number, license, or identification.

EXAM

There is no exam for the POLICY course. Students will be graded on BRINGING a local ordinance, attendance and class participation.

There is a *NC LID Certification* exam that will be offered once the student has successfully completed both the INTRO and POLICY courses. This exam is offered on Moodle.

MOODLE

Your exam may be taken and graded online. *Moodle* is an online program used by the University as a teaching tool. Instructions for using *Moodle* are cited below.

Step 1. Go to <http://moodle.wolfware.ncsu.edu/> and create a Moodle account. You will then receive an automated email asking you to "complete your registration" by clicking on a link provided in the email. When this is done, please email Cathy Smith so that she can add you to the student roster and email you your "special password" to access the exam. [Email: cathy_smith@ncsu.edu]

Step 2. When you're ready to take the exam having received your special password, please log in to Moodle and click on the "BAE Extension" link.

Step 3. Click on the "NC LID Certification exam" link. Start the test.

The exam will open on _____ and close on _____. You have 3 hours maximum to take the exam. Students have two options when taking the exam: (1) save without submitting; and (2) save and submit. The "save without submitting" function does NOT stop the clock – but it is recommended that you “save” often while taking the test so as not to lose your answers in the rare occasion that the web page “times out”. The "save and submit" function completes the exam and submits it to the instructor for final grading.

If you do not complete the exam by time allotted, the system will delete your information and you will forfeit any attempts to successfully take and pass the exam. **Email Dwane at dwane_jones@ncsu.edu, immediately upon completing the exam.**

Please email Cathy at cathy_smith@ncsu.edu if you have any logistical or technical issues or call her at 919-515-6780. For questions regarding content, please email Dwane Jones at dwane_jones@ncsu.edu.

OTHER

- Some workshops may have a field trip component. You will be notified beforehand if this is the case. Appropriate attire (walking shoes, etc) is encouraged.
- Future workshops, general information, and resources may be found at: bae.ncsu.edu/topic/lid.
- *Course Evaluation*- Please complete a course evaluation at the conclusion of the workshop. The data from evaluations is used to enhance the educational experience of future workshops and courses.