

# CURRICULUM STANDARD

Effective Term  
Fall 2009  
[2009\*03]

Curriculum Program Title

**Low Impact Development**

Code

**A40290**

Concentration

**(not applicable)**

## *Curriculum Description*

The Low Impact Development (LID) curriculum is designed to prepare students interested in sustainable development and natural resource management with the technical skills to serve as specialists in the analysis of land and in the preparation of LID recommendations.

The program of study will consist of a multidisciplinary core of coursework including the study of land planning software programs, soils, site analysis, hydrology, geospatial technology, and environmental regulations.

Graduates should qualify for a variety of positions such as LID consultants, technicians, and/or liaisons between landscape architects, engineers, construction contractors and/or related professionals.

## *Curriculum Requirements\**

*[for associate degree, diploma, and certificate programs in accordance with 23 NCAC 02E.0204 (3)]*

- I. General Education.** Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.
- II. Major Hours.** AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. *(See second page for additional information.)*
- III. Other Required Hours.** A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

	<b>AAS</b>	<b>Diploma</b>	<b>Certificate</b>
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
<b>Total Semester Hours Credit (SHC)</b>	<b>64-76</b>	<b>36-48</b>	<b>12-18</b>

*\*Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.*

# Major Hours

[ref. 23 NCAC 02E.0204 (3)]

- A. Core.** The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.
- B. Concentration** (if applicable). A concentration of study must include a minimum of 12 semester hours credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.
- C. Other Major Hours.** Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

## Low Impact Development A40290

	AAS	Diploma	Certificate
<b>Minimum Major Hours Required</b>	<b>49 SHC</b>	<b>30 SHC</b>	<b>12 SHC</b>
<p><b>A. CORE</b>  <i>Courses required for the diploma are designated with *</i>  <b>Required Courses:</b></p> <ul style="list-style-type: none"> <li>* LAR 120 Sustainable Development 3 SHC</li> <li>* LID 111 LID Design Principles 3 SHC</li> <li>* LID 112 LID Practical Application 3 SHC</li> <li>* LID 230 Impacted Site Remediation 3 SHC</li> <li>* LID 240 Sustain Develop Design 3 SHC</li> </ul> <p><b>Required Subject Areas:</b>  <b>Drafting and Design.</b> <i>Select three courses:</i></p> <ul style="list-style-type: none"> <li>DFT 151 CAD I 3 SHC</li> <li>DFT 152 CAD II 3 SHC</li> <li>HOR 112 Landscape Design I 3 SHC</li> <li>LAR 111 Intro to Landscp Arc Tech 3 SHC</li> <li>LAR 114 CAD for Land Development 2 SHC</li> <li>LAR 221 Landscape CAD 3 SHC</li> </ul> <p><b>Intro to GIS/GPS.</b> <i>Select one set:</i></p> <ul style="list-style-type: none"> <li>GIS 111 Introduction to GIS 3 SHC <i>and</i></li> <li>GIS 112 Introduction to GPS 3 SHC</li> </ul> <p><i>or</i></p> <ul style="list-style-type: none"> <li>FOR 215 Introduction to GIS/GPS 3 SHC</li> </ul> <p><b>Geographic analysis.</b> <i>Select two courses:</i></p> <ul style="list-style-type: none"> <li>GIS 121 Georeferencing &amp; Mapping 3 SHC</li> <li>GIS 231 Geo Position Sys Methods 3 SHC</li> <li>GIS 245 Intro to Spatial Analysis 3 SHC</li> <li>GIS 246 Prin of Property Mapping 3 SHC</li> </ul> <p><b>Plant Materials.</b> <i>Select two courses:</i></p> <ul style="list-style-type: none"> <li>FOR 121 Dendrology 4 SHC</li> <li>HOR 160 Plant Materials I 3 SHC</li> <li>HOR 260 Plant Materials II 3 SHC</li> <li>LAR 230 Prin of Exterior Planting 4 SHC</li> <li>LAR 231 Prin of Interior Planting 3 SHC</li> </ul> <p><b>Soil Science.</b> <i>Select two courses:</i></p> <ul style="list-style-type: none"> <li>CST 231 Soils &amp; Site Work 4 SHC</li> <li>FOR 173 Soils &amp; Hydrology 3 SHC</li> <li>HOR 166 Soils &amp; Fertilizers 3 SHC</li> </ul>	<b>44-50 SHC</b>	<b>15 SHC</b>	

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<b>Low Impact Development A40290 (continued)</b>			
<b>B. CONCENTRATION</b> <i>(Not applicable)</i>			
<b>C. OTHER MAJOR HOURS</b> <i>To be selected from the following prefixes:</i>  BIO, BPR, CIS, CIV, COE, CST, DFT, ENV, FOR, GIS, HOR, LAR, LID, and SRV  <i>Foreign language courses (including ASL) that are not designated as approved other major hours may be included in all programs up to a maximum of 3 semester hours of credit.</i>			