



NORTH CAROLINA COMMUNITY COLLEGE SYSTEM

Dr. R. Scott Ralls, President

March 26, 2009

MEMORANDUM

TO: Presidents
Chief Academic Officers

FROM: Delores A. Parker
Senior Vice President
Chief Academic Officer

SUBJECT: State Board Action on March 20, 2009
Addition to the Special Application List
New Curriculum Standard

On March 20, 2009, the State Board of Community Colleges approved the following curriculum for the Special Application process:

Medical Office Administration (A25310)

The complete list of curriculum programs approved for the Special Application process can be obtained by visiting Section 3A of the *Curriculum Procedures Reference Manual* at:

http://www.nccommunitycolleges.edu/Programs/reference_manual2.htm

The State Board of Community Colleges also approved new Low Impact Development (LID) curriculum courses and the following new curriculum standard:

Low Impact Development (A40290)

The new curriculum standard and courses are attached for your convenience. You may view all curriculum standards and curriculum courses by visiting the Programs website at:

<http://www.nccommunitycolleges.edu/Programs/index.html>

If you have any questions concerning these State Board action items, please contact Dr. Judith C. Mann at 919-807-7108 or mannj@nccommunitycolleges.edu.

DAP/JF/swj

Attachments

c: Dr. Judith C. Mann
Dr. John Pettitt
Ms. Jennifer Frazelle
Ms. Tracy McPherson
Program Coordinators

CC09-008
Email

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AN EQUAL OPPORTUNITY EMPLOYER

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.

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

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

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Low Impact Development A40290 (continued)			
B. CONCENTRATION <i>(Not applicable)</i>			
C. OTHER MAJOR HOURS <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>			

Low Impact Development

*Effective Term –Fall 2009 [2009*03] – SBCC 03/20/09*

LID 111	LID Design Principles	2	3	3
Prerequisites:	None			
Corequisites:	None			

This course introduces design principles of Low Impact Development (LID) which incorporate sustainable development and natural resources management as an alternative to traditional site design. Topics include science-based interdisciplinary design practices including tools from civil and environmental engineering, hydrology, horticulture, ecology, and architecture. Upon completion, students should be able to use multifaceted approaches to recommend site-specific LID design concepts for residential, public, and commercial sites.

*Effective Term –Fall 2009 [2009*03] – SBCC 03/20/09*

LID 112	LID Practical Application	2	3	3
Prerequisites:	None			
Corequisites:	None			

This course covers applications of Low Impact Development (LID) design leading to sustainable site development and the protection of natural resources. Topics include the application of science-based interdisciplinary design practices including tools from civil and environmental engineering, hydrology, horticulture, ecology, and architecture. Upon completion, students should be able to recognize and give examples of multifaceted approaches used in site-specific development designs for residential, public, and commercial sites.

*Effective Term –Fall 2009 [2009*03] – SBCC 03/20/09*

LID 230	Impacted Site Remediation	3	0	3
Prerequisites:	LID 111 and LID 112			
Corequisites:	None			

This course is designed to familiarize students with various scale remediation projects to enhance the understanding the role of environmental repair has in sustainable development. Emphasis will be placed on case studies that cover soil and water remediation efforts necessitated by residential, commercial, industrial, governmental, and agricultural activity. Upon completion, students will be able to discuss and utilize the tools and technologies used in a variety of soil and water remediation projects.

*Effective Term –Fall 2009 [2009*03] – SBCC 03/20/09*

LID 240	Sustain Develop Design	1	4	3
Prerequisites:	LID 111 and LID 112			
Corequisites:	LID 230			

This course is designed as a capstone course for programs with a focus on Low Impact Development (LID). Emphasis is placed on the interdisciplinary design process that professionals would utilize on sustainable site development projects to meet environmental, economic, and social objectives. Upon completion, students should be able to complete a sustainable development design for a given site using LID principles and incorporating client-generated parameters.