

Landscape Architecture Department
Faculty of environmental Design – King Abdulaziz University

BLA | Bachelor in Landscape Architecture Program
Courses Manual

Academic Affairs Committee
Revised & Updated 2018

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LANDSCAPE ARCHITECTURE PROGRAM – 4 years

Mission Statement:

To earn the professional trust of the local and international communities' by producing highly skilled landscape Architects who are capable of meeting the demands and challenges posed by the environment, society and economy.

Goals:

1. Promote landscape architecture design excellence
2. Produce well-grounded graduates who have a broad knowledge base, an understanding of the field landscape architecture and critical thinking skills
3. Encourage students and faculty towards community outreach.
4. Promote an understanding of sustainability as a basis for the design of the urban and natural environments

Objectives:

- i. Embrace art & computer applications as a way to expand landscape design skills
- ii. Maintain an understanding of the natural, built and social environment through courses and studios.
- iii. Maintain the landscape architecture curriculum that embraces the theoretical, conceptual, practical and technical matters related to landscape architecture.
- iv. Emphasize the importance of verbal communication skills as well as graphic communication skills.
- v. Create a sense of community and foster civility among students, faculty and staff
- vi. Strive to collaborate and work well with other individuals, departments in the University as well as public and private sector
- vii. Recruit the best problem solving approaches of sustainability through landscape architecture design & planning



► Program Learning Outcomes

The graduate from the bachelor in landscape architecture program (BLA) will gain the following learning outcomes:

1. Knowledge

- ▽ Recognize landscape architecture history and theory
- ▽ Define landscape architecture design
- ▽ Distinguish the basic construction technology and its relating to the landscape architecture
- ▽ Outline the scientific information related to landscape architecture field

2. Cognitive Skills

- ▽ Develop strategic and creative thinking for problem solving
- ▽ Design academic research and reports
- ▽ Plan various techniques of collecting data and analysis

3. Interpersonal Skills & Responsibility

- ▽ Work effectively in groups
- ▽ Perform constant time management, decision making, working under pressure and adherence to deadlines.

4. Communication, Information Technology, Numerical

- ▽ Prepare verbal and nonverbal presentation
- ▽ Develop calculation performance

5. Psychomotor

- ▽ Produce landscape architecture design construction and illustrative drawings or models

▶ Graduation Requirements

Students must complete 155 credit hours to graduate from the landscape architecture department divided as follow:

| | |
|---|----------------|
| University Requirements Courses: | 26 Credit Hour |
| Faculty Requirements Courses: | 36 Credit Hour |
| Department Compulsory Courses: | 70 Credit Hour |
| Department Elective Courses: | 16 Credit Hour |
| University Free Courses: | 07 Credit Hour |



► COMPULSORY COURSES

| Level | Code | Course Title | Pre- Requisite | Credit |
|---------|----------|----------------------------------|----------------|--------|
| Level 1 | LA192 | Stud-1Basic Principles LA Design | | 4 |
| | URP113 | Introd. to Town Planning | | 2 |
| | AR100 | Freehand Drawing | | 3 |
| | LA181 | Introduction to Env. Design | | 2 |
| | GEOM101 | Surveying for Env. Design | | 2 |
| | ARAB101 | Arabic Language (1) | | 3 |
| Level 2 | LA193 | Stud-2Basic Anal. & Des. LA | LA192 | 4 |
| | AR120 | Architecture and Heritage | | 2 |
| | URP134 | Urban Design | | 2 |
| | LA182 | Environment and man | | 2 |
| | URP112 | Computer for Env. Design | | 2 |
| | GEOM102 | Geomatics for Env. Design | GEOM101 | 2 |
| | ISLS 101 | Islamic Studies (1) | | 2 |
| Level 3 | LA294 | Stud-3 Design Process in LA | LA193 | 5 |
| | LA252 | Plants Material in LA | | 3 |
| | LA244 | LA Construction Technology - 1 | | 3 |
| | LA261 | Computer Applications in LA -1 | | 2 |
| | ARAB 201 | Arabic Language (2) | ARAB101 | 3 |
| | | | | |
| Level 4 | LA295 | Stud-4 Detailed Design in LA | LA294 | 5 |
| | LA254 | Planting Design in LA | LA251 | 2 |
| | LA245 | LA Construction Technology -2 | | 3 |
| | LA222 | Site Planning | | 2 |
| | ISLS 202 | Islamic Studies (2) | ISLS 101 | 2 |
| | | Free Course | | 2 |
| Level 5 | LA396 | Stud-5 Urban Design in LA | LA295 | 5 |
| | LA353 | Planting Technology | LA252 | 2 |
| | LA323 | Landscape Plan. and Management | | 3 |
| | LA 312 | Field Training-1 | | 1 |
| | ISLS 301 | Islamic Studies (3) | ISLS 202 | 2 |
| | | Elective course | | 3 |
| | | | | |
| Level 6 | LA397 | Stud-6 Landscape Planning | LA396/323 | 5 |
| | LA356 | Soil and Hydrology | | 2 |
| | LA314 | Professional Practice | | 3 |
| | LA331 | Landscape of Man | | 3 |
| | ISLS401 | Islamic Studies (4) | ISLS 301 | 2 |
| | | Free course | | 1 |
| Level 7 | LA498 | Stud-7 LA Professional Studio | LA397 | 5 |
| | LA401 | Graduation Project Research | LA397 | 2 |
| | LA413 | Field Training-2 | LA 312 | 2 |
| | | Elective course | | 3 |
| | | Elective course | | 3 |
| | | Free course | | 2 |
| | | | | |
| Level 8 | LA499 | Stud-8 LA Graduation Project | LA498 | 6 |
| | | Elective course | | 3 |
| | | Elective course | | 3 |
| | | Elective course | | 2 |
| | | Free course | | 2 |
| | | | | |

► ELECTIVE COURSES

| Code | Course Title | Pre- Requisite | Credit |
|-------|--------------------------------|---------------------|--------|
| LA372 | Natural Resource Techniques | | 3 |
| LA402 | Special Studies in LA | | 3 |
| LA415 | Project Management in LA | LA222, LA294, LA323 | 3 |
| LA426 | Contemporary Directions in LA | | 2 |
| LA424 | Advanced Site Planning | LA222 | 2 |
| LA446 | LA Construction Technology -3 | LA245 | 3 |
| LA457 | Advanced Plants Material in LA | LA252 | 3 |
| LA458 | Advanced Planting Design | LA254, LA353 | 3 |
| LA459 | Irrigation in LA | LA252 | 2 |
| LA462 | Computer Applications in LA -2 | LA261 | 3 |
| LA473 | Advanced GIS in LA | LA372 | 3 |
| LA483 | Towards Islamic LA | | 2 |
| LA484 | Sustainable Ecotourism | | 3 |
| LA485 | Land Reclamation | | 2 |
| LA486 | Desert LA | LA182 | 2 |
| LA487 | Indoor LA | LA253, LA294 | 2 |
| LA488 | Landscape Ecology | LA182 | 2 |

▶ LA COMPULSORY COURSE DESCRIPTION

100 Level - FRESHMAN

LA 181

2 Credit

1st – 2nd Semester

Introduction to Environmental Designs

This course is an introduction to the environmental design's importance, concepts, ethics, applications, disciplines and vocabularies. It discusses various elements and factors related to the three types of environment: natural, human and built environments. It also explains a number of national and international green projects with different uses, scales and technologies. In addition, the course explains the disciplines of the Faculty of Environmental Designs and the relationship between them.

LA 182

2 Credit

1st – 2nd Semester

Environment and Man

The course aims to provide the student a solid foundation in scientific approaches to environmental problems and solutions. It is trying to re-examine them in a critical and balanced manner so as to broaden their vision in analyzing environmental problems and to develop their ability in problem solving. This course attempts to encourage students to probe into the environmental issues for sustainable approaches in Saudi Arabia through a number of cases and field observations.

LA 192

4 Credit

1st Semester

Basic Principles in Landscape Architecture Design

STUDIO 1

This course aims to develop the students' drafting and drawing techniques that used in landscape architecture and architecture field. It familiarizes the students with the drafting equipment's and techniques that used to understand and produce drawing. In addition, this course focuses of the two and three dimensional drawings as well as model making.

LA 193

4 Credit

2nd Semester

LA 192 /Pre- Requisite

Basic Analysis & Design in Landscape Architecture

STUDIO 2

This course aims to develop the students' design ability and to understand the design language that used in landscape architecture and architecture field. It familiarizes the students with the range of design stages, scales and elements. In addition, this course will enhance the student capability in solving problems by design.

200 Level - SOPHOMORE

LA 222

2 Credit

1st – 2nd Semester

Site Planning

Students are taught the site planning process, aspects of site and program analysis and the principles of design concerned in site development, including simple site surveying. Different scales of projects are covered, but the emphasis throughout is on practical working knowledge. Natural and man-made elements and aspects of site planning are dealt with.

LA 244

3 Credit

1st Semester

Landscape Architecture Construction Technology I

Basic composition and properties of main construction materials and their uses in landscape architecture projects. Paving with asphalt, concrete and masonry units. Wood as a building material. Basic structural concepts, design of simple landscape wood structures. Stability of retaining walls. Construction detailed drawings provided with simple specifications.

LA 245

3 Credit

2nd Semester

Landscape Architecture Construction Technology II

Site grading for level areas and circulation routes; contour lines characteristic, slope calculations, existing and proposed contours, grading by cut, fill and cut and fill. Earthwork calculations. Drainage of storm surface runoff, estimation of storm runoff volumes, design of surface and subsurface drainage systems, drainage structures, sub-drainage design.

LA 252

2 Credit

1st Semester

Plants Material in Landscape Architecture

The course aim to teach student many plants material used in landscape architecture LA with detailing about their morphology, physiology, and response to the range of environmental conditions in Saudi Arabia. In other hand it is try to give them an introduction of botany with focusing in the morphological description.

LA 254

2 Credit

2nd Semester

LA 252 /Pre- Requisite

Planting Design in Landscape Architecture

The course introduces the students to the use of plant materials as one of the basic elements in landscape architectural design. It discusses the visual characteristics of plant materials available in Saudi Arabia and their design use. It also describes the functional, architectural and aesthetic uses of plant materials. At the end it acquaints students with the principles of planting design including; design process, preparation of planting plans and plant schedules.

LA 261

2 Credit

1st Semester

Computer Applications in Landscape Architecture

This course is designed to develop student's use of computer aided design in landscape architecture. Through this course, the student will gain skills of using graphics editing software to learn 2 D & 3D drawing and illustrating. This course will cover the presentation techniques as well as producing and editing animations. The course will enhance the student ability in working with different media and to understand tones and color.

LA 294

5 Credit

1st Semester

LA 193 /Pre- Requisite

Design Process in Landscape Architecture

STUDIO 3

The aim of this studio is to understand landscape architecture design processes. Over a number of projects (probably 3), students are exposed to both traditional and innovative design processes. The first & second projects are pro-cessed traditionally on two different attributes: a public site, and a privet site. The third project, which is an innova-tive design process, is implemented on a semi-public space. Each project requires context-sensitive approach to its problem-solving process. Moreover, each student is expected to learn how to incorporate factors affecting their sites into the process used. The outcome of each project is a design proposal that addresses processes, proper design conceptualization & professional presentation.

LA 295

5 Credit

2nd Semester

LA 294 /Pre- Requisite

Detailed Design in Landscape Architecture

STUDIO 4

This studio offers students fundamentals of design details within the landscape architecture design processes. Here, students are expected to further detail two of their own projects' into properly detailed design projects. Students will learn how to develop design solutions at various scales of design topics. Namely: spatial definition, paths and moment, edges & entrances.

300 Level - JUNIOR

LA 312

1 Credit

2nd Semester

Field Training I

The course will work on developing students' skills in internship-search, career management and communication. It will also provide students with the chance to evaluate of their workplace interests and skills. In addition, it will help students to discuss how the workplace interests and skills will impact on personal career choices. Finally, the course will provide students with the opportunity to prepare a professional-style CV and portfolio, learn proper interviewing techniques, learn professional behaviors and develop a professional report writing skills.

LA 314

3 Credit

2nd Semester

Professional Practice in Landscape Architecture

This course deals with the profession of landscape architecture, professionalism and the profession's ethics. Also deals with the role that the Landscape Architect can take in the public and private sectors in Saudi Arabia. Studying the technical and practical aspects of organizing their components of a full set of landscape contract documents; this will include preparation and assembly of all working drawings, the measurement of quantities and preparation of bills of quantity, the requirements and organization of the specifications and the relationship of these components to the conditions of tender and the form and conditions of contracts and agreements.

LA 323

3 Credit

1st Semester

Environmental Planning and Management

The course introduces the students to environmental planning and management. It covers the methods of land use and landscape planning in the context of Saudi Arabia. The first part of the course focuses on assessment of landscape resources and environmental land use planning and how to apply Ian McHarg's approach (the suitability analysis). Since this methodology uses environmental resource analysis, the course also introduces students to the meaning of ecosystems, the environmental resources and how they work and used in EP. The second part of the course introduces the students to the principles of landscape management from global perspective, management techniques and methods of reaching equilibrium between human and nature.

LA 331

3 Credit

2nd Semester

Landscape of Man

Studying the history of man's impact on the landscape and the different landscape design schools from early prehistoric times to The Industrial Revolution, with an emphasis on the geographic, social, political and economic factors landscapes it formed.

LA 356

3 Credit

2nd Semester

Soil and Hydrology in Landscape Architecture

The course contains two main sections: Soil and Hydrology. It aims to give the students a good knowledge about soil in landscape, and understanding its physical and chemical characteristics to apply in LA project. On other hand the Hydrology section aims to learn the principle of hydrology to use in LA projects. The conditions of local environment will be pay attention carefully.

LA 396

5 Credit

1st Semester

Urban Design in Landscape Architecture

STUDIO 5

LA 295 /Pre- Requisite

The urban design in the landscape architecture, this studio handles the relation between the design and the landscape through studying projects that include issues in space design, user's behavior inside the district, city centers for instance it includes urban design principles and shows the integration between landscape architecture and urban design with emphasizing on human needs.

LA 397

5 Credit

2nd Semester

Landscape Planning

STUDIO 6

LA 396 /Pre- Requisite

Dealing with large-scale projects that cover broad urban or rural areas and involves landscape planning methodologies, environmental resource analysis, and landform, evaluation and infrastructure issues. A complex project is needed in order to illustrate the demands made upon the landscape architect to develop a landscape policy and plan and in order to create a framework for design. If possible presentation should be made interdisciplinary jury.

400 Level - SENIOR

LA 401

2 Credit

1st Semester

LA 397 /Pre- Requisite

Graduation Project Research

This course will help the students to develop three main skills that related to conducting research related to the field on landscape architecture. First, Execution activities associated with learning what is known about the field of landscape architecture. And the second skill, Using accepted methods for producing new knowledge which possesses qualities of validity and reliability. In addition, Preparing a dissertation which meet expectations for academic rigor, and finally learning the principles of transferring research into design.

LA 413

2 Credit

2nd Semester

LA 312 /Pre- Requisite

Field Training II

The course will expose students to world's famous landscape architectural firms and their specialties It will also improve students' technical skills and help them gain an understanding of the day-to-day operations of the practice, including how to deal with co-workers, owners, contractors and the general public. Most importantly, the course will advance students skills in reports writing, tasks documentation and reports structure organization. It will also help students to write a professional-style CV that includes all the experience gained while enrolling in the LA program.

LA 498

5 Credit

1st Semester

LA 397 /Pre- Requisite

Landscape Architecture professional Studio

STUDIO 7

A special studio focusing on different range of projects that solve issues related to landscape architecture which helps to improve the living environment based on to the location of each project or the issues on which it is based. The scale of the projects is varied according to the student's choice. However, all students must go through all stages within the design process that they learned.

LA 499

6 Credit

2nd Semester

LA 498 /Pre- Requisite

Graduation Project

STUDIO 8

Student will be developing their work on their gradation project that they started in LA498 and will select an area each according to their project type and scale. These areas will be developed to become more realistic and each student will produce a set of working drawings related to the landscape scope of work based on what they learned from the previous studios and courses. In addition, student will select the materials according to the current situation with the market and understand the techniques of matching different buildings material and the prices and how to reduce cost if needed.