COURSE PROSPECTUS - IBE Courses 213

NATURAL, HEALTHY BUILDING & REMODELING

Bau-Biologie Principles in Practice

Bringing together design methods and technology to provide the information needed to create natural buildings, healthy homes and workplaces

Requirements for Building Biology Environmental Consultant Certification
1. No experience required
2. Successful completion of Course Series 201-205 – quizzes and final exam
3. Attend three seminars, or equivalent – Course 211, 212 and 213
4. Successful completion of the final project - 221
5. Sign an ethics statement
6. IBE member in good standing

International Institute for Bau-biologie™ & Ecology

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IBE is a 501 (c) 3 non-profit educational organization

IBE 213 Natural, Healthy Building/Remodeling Practices

This 5-day seminar discusses the Principles of Bau-Biologie®. Building Biology is a specialized branch of Building Science that explores the inter-relationships between human health, the built environment and planetary ecology. It is a "full spectrum" approach to the built world. Students review the indoor environmental hazards a home or office may contain and the design and construction strategies to avoid them during construction and remodeling. Additionally, students learn about available, and often economical, solutions to rectify known problems. This seminar benefits home dwellers, architects, interior designers, and other building professionals. Students who are in the Building Biology™ Environmental Consultant track will present reports of their case studies. Topics include:

- Environmental situation
- Building Science
- Bau-Biologie design within the building culture
- Outdoor Environment
- Biologically-sound building materials and strategies
- Home maintenance and upkeep

Resources: IBE Natural, Healthy Building Course [IBE 101], Prescriptions for a Healthy House, by Paula Baker Laporte, et al., Natural Remodeling for the Not-So-Green House: Bringing Your Home into Harmony with Nature by Carol Venolia and Kelly Lerner

Time requirement: 5 days (successful completion of a written exam is required for BBEC status)

Prerequisites: 204.3

Seminar Schedule:

Day 1 – Introduction to Design

- IBE Introduction
- Building Science - overview
- Bau-Biologie Principles – a specialized branch of Building Science
- Design for Climate and Culture
  - Passive/natural heating, cooling, ionization, humidity control, ventilation and day lighting strategies.
  - Healthy electro-climate.
  - Definition of scientific terms in the context of Bau-Biologie
  - Historical and alternative wall sections - compared and contrasted

Day 2 - The Outdoor Environment/Site

- Balanced and regenerative ecological approach to site
- Siting of buildings
- Discussion of geopathic zones, water, flora, fauna, climate, surrounding neighborhood, man-made electro-climate impacts
- Ecological applications of the dwelling's waste stream.

Day 3 – House as a Complex System

- Indoor climate: temperature (air, surface, stratification, and monotony), electrobiology, ventilation/filtration strategies, and finishes.
- Alternative Wall Assemblies assessment.
- Finish materials for walls, floors, ceilings, exterior skins and openings.

Day 4 – Human Interaction with the Home

- Core of an ecological life-style
- Choices for furnishings, household cleaners, pest management, appliance selection etc
- Facilitate the growing, preparation storage and composting of food.
- Day-to-day maintenance and long term upkeep

Day 5 – Review & Exam

- Review of material and final exam

It is not possible within a short timeframe to cover all of the material required for building a natural, healthy home. This seminar is only intended to raise awareness of the Bau-Biologie® (Building Biology™) research and techniques. Attendance at this seminar alone is not intended to imply that the attendee is qualified or certified for consultancy, building, architectural design, teaching, or any other practice associated with Bau-Biologie principles.

This seminar is interactive with demonstrations, labs, discussions and research assignments designed to reinforce the lecture material.

*The daily schedules are only approximations and will vary from seminar to seminar.

