
Learning Objectives

MedBridge Education
An Overview of Applied Functional Sciences™
Gary Gray, PT

Module 2: The Sciences of Applied Functional Science

The online learners will

- Understand Applied Functional Science™ as the convergence and integration of the physical sciences, biological sciences, and behavioral sciences
- Be able to list the component sciences that make up the physical sciences and describe their relevance to Applied Functional Science™
- Be able to list the component sciences that make up the biological sciences and describe their relevance to Applied Functional Science™
- Be able to list the component sciences that make up the behavioral sciences and describe their relevance to Applied Functional Science™

Module 3: The Process of Applied Functional Science

The online learners will

- Discover how the scientific truths of Applied Functional Science™ form and serve as the foundation for the process of Applied Functional Science™.
- Fully appreciate that the powerful process of Applied Functional Science™ is scientifically based, evidence-based, and purpose-based.
- Understand the process of Applied Functional Science™ as the transformation of principles of scientific truths into functional strategies of guidance, and the transformation of strategies into unlimited techniques of action.
- Explain in detail the powerful process of Applied Functional Science™ with principles being the why of function, the strategies being the how of function, and the techniques being the what of function.

Module 4: The Principles of Applied Functional Science

The online learners will

- Explain in detail the powerful process of Applied Functional Science™ with principles being the why of function, the strategies being the how of function, and the techniques being the what of function.
- Be introduced to the key physical science principles and strategies of Applied Functional Science™, including gravity, ground reaction force, mass, and momentum, as well as examples of their functional applications.

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- Realize the significance of three-dimensional space, three planes of motion, and the universal law of three-dimensionality.
 - Be introduced to the key biological science principles and strategies of Applied Functional Science™, including Chain Reaction™, 3D Matrix, synergistics, dynamics, and variability, as well as examples of their functional applications.
 - Realize the significance of physical drivers, biological drivers, and behavioral drivers.
 - Recognize the value and need for Applied Functional Science™ language (nomenclature) based on consistency, completeness, and communication.