

BAYESIAN BODYBUILDING

SCIENCE. LOGIC. DATA. THIS IS BODYBUILDING 2.0

Bayesian PT course contents 2019



NUTRITION MODULE

Do-it-yourself science & Bayesian reasoning

Optimizing macros: protein intake

Optimizing macros: carbohydrate intake

Optimizing macros: fat intake

Customizing the diet to an individual, including carb tolerance testing

Ketogenic dieting: a complete overview

Human metabolism

What is energy? Thermodynamics and energy balance

Determinants of energy expenditure, refeeds, set-point theory, metabolic damage, adaptive thermogenesis, reverse dieting and the yo-yo effect

Optimizing caloric intake: cutting, bulking and body recomposition

Cut or bulk?

Tracking progress

Weight vs. body composition

How to measure body fat percentage

How to track your macros

Nutrient timing I

Intermittent fasting & alternate day fasting

Meal frequency

Circadian rhythm effects

Nutrient timing II

Fasted training

Workout nutrition and the anabolic window

Nutrition case studies and Q&As

Client compliance and program adherence: the psychology of how to stick to your diet and exercise program

- Psychological effects of nutrition

- Goal setting

- Client empowerment

- Cheat meals

- Food cravings

- Assessing client adherence and motivation

Ad libitum dieting: how to lose fat and gain muscle without tracking your macros

Health science and food choices

- What makes a diet healthy?

- Effects of food processing

- Organic food

- Cholesterol

- Saturated fat

- Low calorie sweeteners, sugar and dietary fiber

- Food choices for health and anabolism

Beauty

- Tanning

- Acne

- Hair loss

- Cellulite

- Dandruff

TRAINING MODULE

Understanding how muscle grows

- Neural and morphological adaptations to strength training

- Mechanisms of muscle growth

- Strength vs. size

- Sarcoplasmic hypertrophy

Cardio for fat loss

Optimal training program design: volume, frequency and intensity

Interindividual variability: why there's no one-size-fits-all program

- Autoregulation & muscle-specific hypertrophy

- Work capacity

- Gender specific programming: including contraception, pregnancy, the menstrual cycle and other female specific topics

- Age specific programming: the elderly and youth

The fitness lifestyle

- Circadian rhythm control

- Optimizing sleep quality

- Stress management

Optimizing your exercise selection

- Accommodating resistance: biomechanics, bands and chains

- Exercise selection reference list

- Counting volume: how much does a certain exercise stimulate a certain muscle?

- Training in a home gym

Repetition tempo

Exercise technique

- Internal vs. external cueing

- The mind-muscle connection

Rest intervals

- Active recovery

Optimizing your exercise ordering

- Circuit training, (antagonistic) supersets and paired sets

Advanced training techniques for muscle hypertrophy

- Training to failure, forced reps and drop sets

- RPEs and autoregulation

- Reverse pyramiding, cluster sets and myo-reps

- Weighted stretching

- Eccentric emphasized training/eccentric overloading

- Post-activation potentiation

- KAATSU/blood flow restriction training

Periodization and progression

- Cybernetic/autoregulatory, undulating and linear periodization

- Benchmarking and autoregulation

- What is fatigue?

- Overtraining, overreaching and deloading

- Autoregulatory Volume Training and Reactive Deloading

Training program case studies and Q&A

Injury management and flexibility training

- Injury diagnosis, treatment and active recovery

- Pain science

- Ice vs. heat, NSAIDs and RICE

- Rehabilitative equipment: braces, sleeves, tape, etc.

- Stretching

- Foam rolling and massage

Chiropractic

Warming up and cooling down

Common injuries of each body part

Training gear

Weightlifting belts

Footwear: what to wear in the gym

Knee wraps

Lifting straps