



NP 150 Part I: Mechanisms in the Diet-Mental Health Relationship (DMHR) (CAMFT)

\$299 USD
39.25 CE

NP 150 Part I introduces comprehensive mechanisms underlying Diet-Mental Health Relationships (DMHR), spanning **biological, neurobiological, neuroimmunological, psychoneuroimmunological, psychological, behavioral, social, environmental, and developmental** domains.

Biological mechanisms include macronutrients, micronutrients, dietary patterns, nutritional deficiencies, phytonutrients, neuroactive compounds, and hormones (e.g., insulin, leptin, ghrelin, cortisol). The course also covers neuroendocrine pathways, early-life nutrition, the gut-brain axis, neurotransmitter synthesis, cognitive regulation, stress resilience, and energy balance.

Neurobiological mechanisms focus on brain regions relevant to DMHR, such as the amygdala, hippocampus, prefrontal cortex, hypothalamus, and striatum. Key processes include neurotransmission, neurogenesis, neural repair, neuroplasticity, neurotrophins, neuropeptides, and neuroinflammation—highlighting how nutrients and dietary patterns support brain health and resilience.

Neuroimmunological mechanisms examine the role of the immune system in mental health and how diet modulates this interaction. Topics include immune dysregulation in mental disorders, the immunomodulatory effects of nutrients, and the impact of inflammation and oxidative stress. Specific components like microglia, the blood-brain barrier, and mitochondria are explored in relation to dietary influences on brain health. NP 150 Part I introduces the comprehensive mechanisms underlying Diet-Mental Health Relationships (DMHR), spanning biological, neurobiological, neuroimmunological, psychoneuroimmunological, psychological, behavioral, social, environmental, and developmental domains.

This course meets the qualifications for 39.25 hours of continuing education credit for LMFTs, LCSWs, LPCCs, and/or LEPs as required by the California Board of Behavioral Sciences (CAMFT Provider #1000102)

LEARNING OBJECTIVES

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| List three disciplines included within the interdisciplinary scope of nutritional psychology | Define ‘neurotrophins’ and name two dietary components modulating their brain levels |
| Name two ways phytonutrients impact brain function | Name three ways chronic inflammation can impact brain structure and function |
| Cite two ways omega-3 fatty acid deficiency can influence the efficiency of brain processes | Recite the mechanism by which antioxidants in the diet reduce neuroinflammation in the brain |
| Describe three dietary patterns studied for their effects on mental well-being | Name three dietary factors that suppress inflammation |
| Name three key brain regions involved in DMHR | Explain three ways immune system dysregulation can impact mental disorders |
| Name the brain region involved in reward and habit formation | |

COURSE INSTRUCTORS

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COURSE DETAILS/POLICY

Target Audience: Mental health, nutrition, and other professionals wanting to understand the evidence-based connection between diet and mental health.

This course is part of CNP's **Certificate 2: Biological Mechanisms (NP-M)** in Nutritional Psychology. Other courses in the NP-M Certificate include NP 120 Part I, NP 120 Part II and NP 150 Part II. See the CNP Programs page to learn more.

CE hours do not include meals or breaks. Course certificates are awarded upon successful completion of the course and it's evaluation. If students do not receive their certificate they can email editor@nutritional-psychology.org. CNP maintains course records for 7 years.

This course is accessible for **four months (120 days)** from the date of enrollment. The **course itself cannot be downloaded**, However, **Module Download Kits** with key information from each Module can be downloaded while enrolled in the course. Questions, concerns, or grievances may be directed to the course authors via the course messaging platform. Failing a timely resolution, learners may contact the course editor (editor@nutritional-psychology.org), or follow instructions in the course *Conflict Resolution Procedure*.

The one-time course fee payment is due at the time of enrollment and is considered non-refundable. Exception for a partial refund (up to 75%) will be considered should the learner have proof of severe circumstances leaving them unable to complete the course. Learners who have completed the course's first module will not be refunded. Learners needing accommodations can write to editor@nutritional-psychology.org.

