Students will analyze the relationships between nutrients and environmental exposures and the impact that they have on obesity, diabetes and cardiovascular disease. The learner will become familiar with a variety of dietary strategies and approaches, their evidence and application, as well as discuss current food policies and regulations. Key topics in medical toxicology will be addressed within the framework of exposure, chronicity, implication in human diseases, and appropriate removal. Normal and abnormal detoxification pathways are analyzed. A complete review of cardiometabolic risk, diabetes and cardiovascular disease will be conducted.

INTM 6204. Metabolic Networks in Integrative Medicine. 2 Credits.

INTM 6205. Clinical Genomics, Proteomics, & Metabolomics. 2 Credits.

The student will apply the disciplines of clinical genomics, proteomics, and metabolomics to clinical practice with specific attention to 1) isolating patterns of meaning within complex signals, 2) developing clinical solutions, 3) the interpretation of the omics literature, and 4) engaging in omics-based research. Various topics include: genomics, transcriptomics, proteomics, metabolomics, phenomics, bioinformatics, pattern recognition, metabolic network assessment, targeted vs. non-targeted analysis, laboratory methods, specimen selection, and specimen preparation.

INTM 6206. Legal and Medical Ethics in Integrative Medicine. 1 Credit.

Students will evaluate the legal and ethical considerations in decision making related to patient care. Students will develop business strategies associated with running an integrative medicine practice.

INTM 6210. Practical Application of Integrative Medicine I. 4 Credits.

Integration of the knowledge and practice of the integrative medicine curriculum into practical clinical skills. The learner will engage in small group discussion, case reviews, presentations, individual exercises designed to integrate and translate foundational integrative medicine concepts into real world application. The course will allow the clinical to develop competence in the practice of integrative medicine. Upon completing this course, learners will return to their practices well-prepared to address core lifestyle topics with their patients.

INTM 6211. Practical Application of Integrative Medicine II. 4 Credits.

Focus on the role of the integrative health practitioner in developing patient care plans for specific therapeutic needs. Supervised practical application of learned principles to patient cases that exhibit specific therapeutic needs and requirements. Emphasis on care plans that require synthesis and integration of conventional clinical care for specific diagnoses. Development of clinical reasoning through an evidence-based approach to the evaluation and management of problems commonly encountered in outpatient settings. Students learn to incorporate health promotion and disease management strategies into their clinical practice. Integrate the disciplines of clinical genomics, proteomics, and metabolomics into clinical practice with specific attention to isolating patterns of meaning within complex signals, developing clinical solutions, interpreting omics literature, and engaging in omics-based research.
prevention and advocate for healthy lifestyles and preventive medicine practices in patient care plans.

**INTM 6212. Clinical Research in Integrative Medicine. 2 Credits.**

Applied practice research. The role of the integrative health practitioner in developing an evidence base for clinical practice. Application of clinical knowledge and continued development of clinical reasoning through an evidence-based approach to practice research. Students work under the supervision of a faculty member to develop a research protocol on a mutually agreed upon domain of integrative health care practice; in some cases, students may be placed into research teams to broaden the base of data available for evaluation and interpretation.

**INTM 6213. Clinical Approaches in Integrative Medicine. 2 Credits.**

Foundational understanding of complementary and integrative health (CIH); commonly used CIH approaches discussed within the larger framework of determinants of health.