COURSE DESCRIPTIONS

Curriculum and course changes in the 2013-2014 *Bastyr University Catalog* are applicable to students entering during the 2013-2014 academic year. Please refer to the appropriate catalog if interested in curriculum and courses required for any other entering year.

Program, Department and Course Designation Codes

AY: Ayurvedic Sciences BC: Basic Sciences

BO: Botanical Medicine/Herbal Sciences CH: Chinese Herbal Medicine Certificate

DI: Dietetic Internship

EX: Exercise Science and Wellness HO: Homeopathic Medicine IS: Interdisciplinary Studies

MW: Midwifery

NM: Naturopathic Medicine

OM: Acupuncture and Oriental Medicine

PM: Physical Medicine

PS: Counseling and Health Psychology RD: Didactic Program in Dietetics SN: Science and Naturopathy

TR: Nutrition

Course Numbering Sequence Key

The first digit indicates the year/level at which the course is offered:

1xxx Freshman prerequisite courses 2xxx Sophomore prerequisite courses

3xxx Junior BS Program 4xxx Senior BS Program

5xxx-8xxx Graduate and Professional level courses 9xxx Electives (undergraduate and graduate)

The second digit indicates the type of course:

x1xx General courses x2xx Diagnostic courses

x3xx Diagnostic/therapeutic courses

x4xx Therapeutic courses x5xx Special topics courses x8xx Clinic and clinical courses x9xx Independent study

Note: In the following descriptions, commonly used abbreviations in reference to Bastyr programs include the following: ayurvedic sciences (AY), acupuncture and Oriental medicine (AOM), midwifery/natural childbirth (MW), naturopathic medicine (ND) and nutrition (NTR).

AYURVEDIC SCIENCES

Dhaval Dhru, MD, Acting Department Chair

If not enrolled in the MSAS program, students must be in good academic standing and meet prerequisite requirements to take courses as electives within the MSAS curriculum for elective credit.

AY5101 Fundamentals and Philosophy of Ayurveda

This course is an introduction to the history and philosophy of ayurveda. Students learn about four distinct historical periods of ayurveda, the two prominent schools of ayurveda and the primary and secondary ayurvedic authors and their texts. Prerequisite: admission to Bastyr University

AY5105 Medical Sanskrit 1 2 credits

Ayurvedic medical Sanskrit is not intended to teach Sanskrit as a spoken second language. Rather, the focus of this class is on vocabulary and reading ayurvedic texts. Knowledge of basic medical Sanskrit is necessary for authentic integration of ayurvedic knowledge. Students are instructed to read, write and recite the Sanskrit Devanagari alphabet. Prerequisites: enrollment in the MSAS program or concurrent enrollment in or completion of AY5101 and permission of dean

AY5106 Medical Sanskrit 2 2 credits

This course is a continuation of Medical Sanskrit 1. This class includes an understanding of sentence constructs, identifying the etymology (derivation of words from basic constructs and root) of words and comprehending the grammar of Sanskrit prose in a medical context, leading to reading Sanskrit medical texts and understanding the meaning of commonly used medical passages (sutras). Prerequisites: enrollment in the MSAS program or completion of AY5105 and permission of dean

AY5107 Medical Sanskrit 3

This class is a continuation of Medical Sanskrit 2 and focuses on the Sanskrit of the major ayurvedic classical literature, the Samhitas. Students read and translate important passages from the literature. Prerequisites: enrollment in the MSAS program or completion of AY5106 and permission of dean

2 credits

AY5110 Avurvedic Body Systems 1 2 credits

This course explores the basic concepts of ayurvedic anatomy. Students also explore the basic concept of ayurvedic physiology including details regarding Dosha (energetic principles), Dhatu (tissues) and Mala (waste products). Prerequisite: enrollment in the MSAS program

AY5111 Ayurvedic Body Systems 2 2 credits

This course presents additional concepts of ayurvedic anatomy, including a deeper understanding of Doshas within the areas of organs, systems and nadis, srotas (channels). It also explores the depth of the three attributes (Satva, Rajas and Tamas) in addition to how each governs the mind and emotions. Also addressed are Agni (Fire) — its types, its function, its importance in health and disease — and Ojas (Natural vitality, vigor, immunity) — its function and signs of increase or decrease. Prerequisite: completion of AY5110

AY5112 Ayurvedic Pathology 1

2 credits

This course covers disease states and pathology in an ayurvedic context. Dosha imbalance as well as causes of disease (such as genetic, constitutional and seasonal) and the stages of disease (such as accumulation, aggravation and augmentation) are addressed. Prerequisite: enrollment in the MSAS program

AY5201 Ayurvedic Assessment (Prakruti and Vikruti)

2 credits

According to ayurveda, Prakruti means the physical constitution of a person, and Vikruti means the state of disease. Prakruti is the science of nature, which determines the innate character, physical constitution or disposition of a person. It helps in deciding the ideal lifestyle and therapeutic regimen for an individual. This course focuses on ayurvedic constitutional assessment and the disease assessment of the individual. Prerequisite: enrollment in the MSAS program or completion of AY5101 and permission of dean

AY5202 Ayurvedic Examination

2 credits

This course builds upon the ayurvedic pulse and tongue assessment skills by delving more deeply into multifaceted examination, palpation, voice (Ashtavidha Pariksha) and ayurvedic energy points (Marmas) principles. Prerequisite: enrollment in the MSAS program

AY5203 Ayurvedic Assessment Lab 1

1 credit

This lab allows time to practice assessment skills (such as pulse and tongue diagnosis) with input from and oversight by the instructor. Prerequisite: enrollment in the MSAS program

AY5301 Ayurvedic Psychology 2 credi

This course covers a range of observation and interviewing skills. These skills include observation of behavior, listening, objective questioning, appropriate boundary setting and motivational interviewing, presented in the context of ayurvedic psychological assessment. The course covers ayurvedic concept of structure and function of mind. Prerequisites: enrollment in the MSAS program or concurrent enrollment in or completion of AY5101 and permission of dean

AY5401 Yoga Therapy, Theory and Practice 1 2 credits This class covers yoga philosophy and Patanjali's eight limbs of yoga. Through individual practice, students pursue an understanding of the effect yoga has on the Doshas Energetic principles and bodily functions. The class is focused on the ayurvedic application of yoga for health and constitutional balance and is not intended as a personal yoga routine. Prerequisites: enrollment in the MSAS program or concurrent enrollment in or completion of AY5101 and permission of dean

AY5402 Yoga Therapy, Theory and Practice 2 2 credits This course is a continuation of Yoga Therapy, Theory and Practice 1. Four different types of yoga along with some important yoga texts are discussed. Students explore six yogic cleansing procedures. Prerequisites: enrollment in the MSAS program or completion of AY5401 and permission of dean

AY5405 Ayurvedic Herbology 2 credits

This course addresses the principles, qualities, actions and therapeutic profiles of the foods, herbs and other natural therapeutic substances in ayurveda. The course covers herbal properties, preparations, ayurvedic energetics, phytochemistry and clinical indications for herbs treating the digestive, respiratory and urinary systems. Prerequisite: enrollment in the MSAS program

AY5406 Ayurvedic Herbal Therapies

(Dravyagunavjinana) 2 credits

This course is a continuation of Ayurvedic Herbology and covers herbal properties, preparations, ayurvedic energetics, phytochemistry and clinical indications for herbs treating the cardiovascular system, nervous system, endocrine system and immune system. Prerequisite: completion of AY5405

AY5407 Preventive Ayurveda 1 2 credits

This course covers daily and seasonal routines (Dinacharya) for maintenance of health. Students explore ways in which to counsel clients to maintain balance of mind, body and consciousness through proper diet and lifestyle choices. Prerequisites: enrollment in the MSAS program or completion of AY5101 and permission of dean

AY5408 Panchakarma 1 credit

This course covers in detail five therapeutic procedures (Panchakarma), preparatory procedures and follow-up rejuvenative measures with appropriate dietary and behavioral guidelines. Prerequisite: enrollment in the MSAS program

AY5410 Ayurvedic Diet and Lifestyle Therapies (Ahara and Vihara)

This course teaches the concepts of ayurvedic ahara (nutrition): food combining, eating habits and food energetics as well as vihara (lifestyle): daily and seasonal routines, relaxation, meditation, sleep, stress management, personal habits and behaviors, exercise, relationships and goals applied to different disease conditions and pathologies. Prerequisite: enrollment in the MSAS program

AY5801 Ayurvedic Observation 1

Students are required to take general observation shifts or rotations, and each observation shift involves observation of care under the supervision of licensed or otherwise qualified ayurvedic faculty members. Ayurvedic medicine skills demonstrated in this setting include therapeutics utilized in the training of ayurvedic health practitioners and are performed in the context of ayurvedic medicine. Each student is evaluated on increased competence and specific skills as s/he progresses through clinical education. Prerequisite: enrollment in the MSAS program

AY5802 Ayurvedic Observation 2 1 credit See above description. Prerequisite: completion of AY5801

AY6100 Ayurvedic Pathology 2 2 credits See description for AY5112. Prerequisite: completion of AY5112

AY6101 Ayurvedic Pathology 3 2 credits See description for AY5112. Prerequisite: completion of AY6100

AY6102 Preventive Ayurveda 2 2 credits See description for AY5407. Prerequisite: completion of AY5407 AY6105 Jurisprudence and Ethics

1 credit Medical ethics and legal considerations are discussed in relationship to patient care, privacy issues and scope of practice.

Prerequisite: enrollment in the MSAS program

AY6106 Business Management 2 credits

This class focuses on the foundations for building a health care practice, including formulating and completing a business plan. Additional topics include office planning, bookkeeping, fee structures, taxes, accounting, marketing and communication skills. Additional practice building skills and requirements — including city and state licensing, marketing strategies, legal consent and privacy disclosures, practice options and referrals — are also covered. Prerequisite: enrollment in the MSAS program

AY6201 Ayurvedic Assessment Lab 2 1 credit See description for AY5203. Prerequisite: completion of AY5203

AY6401 Ayurvedic Therapeutics Lab 1 (Bhaishajya Kalpana)

This is a practical course that guides the advanced ayurvedic student on how to prepare herbal medicines such as herbal oils, powders, juices, mineral therapies and more. Students are supervised in the making and application of these preparations. Prerequisite: enrollment in the MSAS program

AY6402 Ayurvedic Therapeutics Lab 2 (Bhaishajya Kalpana) 1 credit

See above description. Prerequisite: completion of AY6401

AY6403 Ayurvedic Nutrition Lab 1 credit

This course explores the basics of ayurvedic cooking for prevention and treatment of constitutional balance and imbalances. It also addresses basic ayurvedic household preparations such as food and topical application of spices and oils. Prerequisites: enrollment in the MSAS program or completion of AY6102 and permission of dean

AY6405 Rejuvenative Therapies (Rasayana) 2 credits This course covers rejuvenation and revitalization therapies. Students explore indications, importance and different aspects of these therapies, including the role these therapies play as preventive measures. Prerequisite: enrollment in the MSAS program

Ayurvedic Sciences Student Clinician Rotations

Students are required to take general clinical rotations. Each rotation shift involves provision of care under the supervision of licensed or otherwise qualified faculty. Demonstrated in this setting are many skills and therapeutics utilized in the training of ayurvedic health practitioners performed in the context of ayurvedic medicine. Each student is evaluated on increased competence and specific skills as s/he progresses through clinical education.

AY6801 Avurvedic Clinic 1

2 credits

See above description. Prerequisite: enrollment in the MSAS

2 credits AY6802 Ayurvedic Clinic 2 See description preceding AY6801. Prerequisite: AY6801

AY6803 Avurvedic Clinic 3 2 credits

See description preceding AY6801. Prerequisite: AY6802

AY6804 Ayurvedic Clinic 4 2 credits See description preceding AY6801. Prerequisite: AY6803

AY6805 Ayurvedic Clinic 52 **credits**See description preceding AY6801. Prerequisite: AY6804

AY6806 Ayurvedic Clinic 62 credits
See description preceding AY6801. Prerequisite: AY6805

AY6807 Ayurvedic Clinic 7 **2 credits** See description preceding AY6801. Prerequisite: AY6806

AY6808 Ayurvedic Clinic 8 2 credits See description preceding AY6801. Prerequisite: AY6807

AY6810 India Internship 3 credits
In this required course, students travel to India to work as interns
with experienced ayurvedic clinicians in ayurvedic clinics and
hospitals. Students have the opportunity to learn by observing,
assisting and discussing with expert clinicians. They practice the
art and science of history taking and constitution questionnaire
evaluation as well as practice the skills of physical observation
and physical examination. They practice how to use the above
information for effective evaluation of constitution and imbalance and put together a comprehensive individualized ayurvedic
treatment plan. Every student intern is under the guidance of a
clinical supervisor who supervises individual cases, monitors
progress and assures completion of all required hours and
reporting. Prerequisite: completion of AY6805

BASIC SCIENCES

Mark Martzen, PhD, Department Chair

BC2115 General Chemistry Intensive 1 Lecture 5 credits This four-week summer quarter course is the first part of an eight-week intensive series held in two parts. The fundamental laws and basic concepts of modern chemistry as applied to the structure and behavior of matter/energy are presented. Topics include measurements and dimensional analysis; atoms, molecules and ions; mixtures; quantitative relationships; thermochemistry; the periodic table; chemical bonding; gases, liquids and solids; rates of reactions; equilibrium; acids and bases; solubility; and oxidation/reduction. Prerequisites: passing grade in college-level introduction to chemistry course

BC2116 General Chemistry 1 Intensive Lab 1 credit Corequisite: BC2115

BC2117 General Chemistry 2 Intensive Lecture 5 credits This four-week summer quarter course is the second part of an eight-week intensive series held in two parts. The fundamental laws and basic concepts of modern chemistry as applied to the structure and behavior of matter/energy are presented. Topics include measurements and dimensional analysis; atoms, molecules and ions; mixtures; quantitative relationships; thermochemistry; the periodic table; chemical bonding; gases, liquids and solids; rates of reactions; equilibrium; acids and bases; solubility and oxidation/reduction. Prerequisites: BC2115

BC2118 General Chemistry 2 Intensive Lab 1 credit Prerequisite: BC2116 or equivalent. Corequisite: BC2117 BC3100 Survey of Organic Chemistry 4 credits

This survey course examines the types of bonding, functional groups, and physical properties of saturated and unsaturated hydrocarbons, alcohols, phenols, thiols, ethers, aldehydes, ketones, carboxylic acids, amines. and amides. Prerequisite: general chemistry (BC2115 or equivalent)

BC3104 Biochemistry 4 credits

This course provides an overview of basic human metabolism. Topics include carbohydrate, protein and fat metabolic pathways, with integration into overall anabolic and catabolic metabolic processes. Prerequisite: BC3100

BC3113 Living Anatomy 3 credits

Required for exercise science students. This course emphasizes musculoskeletal anatomy through lecture and palpation. The focus is to lay a strong foundation of the muscles, bones and joints necessary for understanding biomechanics. Weekly lecture and palpation are reinforced by a required rotation in the cadaver anatomy laboratory. This course is a prerequisite for the massage intensive course and is offered winter quarter only. Prerequisite: none

BC3115 Organic Chemistry Intensive 1 Lecture 4 credits This is a four-week intensive summer course. This course along with Organic Chemistry 2 is intended to satisfy the organic chemistry prerequisites for the naturopathic medicine program. This course offers a systematic study of the physical properties, electronic structures, modes of bonding, and patterns of reactivity seen in alkanes, alkenes, alcohols, thiols, ketones, aldehydes, esters, ethers, phosphoesters, thioesters, amines, amides, carboxylic acids, and aromatic compounds. Prerequisite: at least a C in BC2115 and BC2117 or equivalent college-level courses elsewhere

BC3116 Organic Chemistry Intensive 1 Lab 1 credit Prerequisite: at least a C in BC2117 and BC2118 or equivalent college-level courses elsewhere. Corequisite: BC3115

BC3123 Organic Chemistry for Life Sciences Lecture/

Offered in the fall, this course is intended to satisfy the organic chemistry prerequisite for BC4117. This course offers a survey of the chemistry and reactivity of organic compounds with an emphasis on those molecules of biological importance. Approximately 20 percent of lectures are taught using online exercises. Prerequisite: at least a C in either BC2117 and BC2118 or an equivalent college-level chemistry course with lab

BC3125 Organic Chemistry Intensive 2 Lecture 4 credits This is a four-week intensive summer course. This course along with Organic Chemistry 1 is intended to satisfy the organic chemistry prerequisites for the naturopathic medicine program. Structure and function of proteins, lipids, carbohydrates and nucleic acids are also included. Prerequisite: a grade of C or better in BC3115

BC3126 Organic Chemistry Intensive 2 Lab 1 credit Prerequisite: A grade of C or better in BC3116. Corequisite: BC3125

Anatomy and Physiology Sequence for AOM

This three (3) course sequence for AOM students presents an integrated approach to the study of the normal human body. The anatomy, physiology of each major organ system and their interrelationships are approached in a lecture/laboratory format. Prosected cadavers are used for lab demonstrations.

BC3134 Living Anatomy for AOM 4 credits

Western anatomy and acupuncture energetic anatomy are bridged in this course that emphasizes musculoskeletal anatomy through lecture, palpation and the study of cadavers. Anatomical connections to acupuncture point location are reinforced in both surface anatomy and in the required weekly cadaver laboratory. Offered fall quarter. Prerequisites: admission into AOM program

BC3135 Anatomy and Physiology 1 Lecture/Lab (AOM)

5 credits

See general description of Anatomy and Physiology sequence preceding BC3134 above. Topics covered in this course include cellular anatomy and physiology, and the integumentary, nervous, muscular, and endocrine systems. Prerequisite: BC3134 or permission of basic sciences department

BC3136 Anatomy and Physiology 2 Lecture/Lab (AOM)

4 credits

See general description of Anatomy and Physiology sequence above. Topics covered in this course include blood, lymphatic, immune, cardiovascular, respiratory, digestive, urinary and reproductive systems. Prerequisite: BC3135 or permission of basic sciences department

BC3139 Human Biology Seminar 2 credits

This course assesses the baseline learning skills of students and then addresses areas of concern in problem solving, writing, study strategies and prerequisite knowledge. Students are introduced to the goals of the human biology program and to resources available to achieve these goals. Prerequisite: admission to the human biology program

BC3144 Integrated Biochemistry & Cell Biology

6 credits

This course is an introduction to the basic principles of biochemistry, cellular and molecular biology, and genetics relevant to human cells. Topics include cell chemistry, molecular genetics, energy metabolism and cell homeostasis. General themes or models are introduced as a foundation for integration of concepts. Foundational concepts continue to be integrated throughout Integrated Human Biology 1-3. The lab component introduces students to relevant techniques in biochemistry and molecular biology and emphasize scientific inquiry. Prerequisite: admission to the human biology program

BC3145 Physics 1 Lecture/Lab 4 credits

The first in a sequence of courses designed as a survey of physics. The course focuses on classical mechanics. Specific applications to human biology are emphasized. The lab component emphasizes scientific inquiry and applications to human biology. Prerequisite: admission to the human biology program or permission of instructor

BC3146 Physics 2 Lecture/Lab

4 credits

The second in a sequence of courses designed as a survey of physics. The course focuses on thermal physics and electromagnetism. Specific applications to human biology are emphasized. The lab component emphasizes scientific inquiry and applications to human biology. Prerequisite: BC3145

BC3148 Research Methods in Human Biology 1 3 credits This course provides an overview of the fundamentals of the scientific method and research design. Students develop the skills needed to locate, evaluate and utilize published scientific research. Students become familiar with qualitative and quantitative research methods and the principles of effective experimental design. Prerequisite: admission to the human biology program or permission of instructor

BC3149 Research Methods in Human Biology 2 3 credits

This course builds upon Research Methods in Human Biology 1. Students learn when to use basic quantitative biostatistical methods. The importance of statistical methods in effective experimental design is emphasized. Prerequisite: BC3148

BC3150 Biophysics

1 credit

This course provides the application of conceptual and quantitative principles of physics to biological processes that are studied in tissues, and the integumentary, endocrine and nervous systems. Students use physical principles to solve biological problems. Corequisite: BC3151 or permission of the instructor

BC3151 Integrated Human Biology 1 Lecture/Iab 6 credits This course includes an introduction to basic concepts necessary to understand structure and function at the higher organizational levels. Basic principles of anatomy, physiology, biochemistry, and cell and developmental biology are integrated to provide an understanding of tissues, the integumentary system, and the basic functions of endocrine and neural control systems. General themes or models are used to facilitate integration of concepts. The lab component emphasizes scientific inquiry and examines histology, anatomy, biochemistry and physiology of the systems examined. Prerequisite: BC3144

BC3152 Integrated Human Biology 2 Lecture/Iab 6 credits
This course is a continuation of Integrated Human Biology 1.
Basic principles of anatomy, physiology, biochemistry, and cell
and developmental biology are integrated to provide an understanding of the skeletal and muscular systems, blood, and the
immune and cardiovascular systems. General themes or models
are used to facilitate integration of concepts. The lab component
emphasizes scientific inquiry and examines histology, anatomy,
physiology and biochemistry of the systems. Prosected cadavers
are used for anatomical study. Prerequisite: BC3151

Anatomy and Physiology 1-3 for Undergraduate Science Majors

This three (3) course sequence presents an integrated approach to the study of the normal human body. The anatomy, histology and physiology of each major organ system and their interrelationships are approached in a lecture/laboratory format. This sequence is designed for students enrolled in the nutrition, herbal sciences, exercise science, and psychology and human biology programs. Prosected cadavers are used for lab demonstrations.

BC3161 Anatomy and Physiology 1 Lecture/Lab 3 credits See the sequence description above. This course covers basic cell structure and function, histology, and the anatomy and physiology of the integumentary, skeletal, and nervous systems. Prerequisites: general chemistry and general biology with labs

BC3162 Anatomy and Physiology 2 Lecture/Lab 3 credits See the description of the A and P sequence preceding BC3161. Topics covered in this course include the anatomy and physiology of the muscular, endocrine, cardiovascular and immune systems, and blood. Prerequisite: passing grade in BC3161

BC3163 Anatomy and Physiology 3 Lecture/Lab 4 credits See the description of the A and P sequence preceding BC3161. Topics covered in this course include the anatomy and physiology of the digestive, respiratory, urinary and reproductive systems. Prerequisite: passing grade in BC3162

BC3901, BC3902, BC3903 Independent Study

variable credit

These courses provide an opportunity for undergraduate students to study areas of interest that are not included in the regular curriculum. With the aid of a selected resource person, the student may explore a field of study that is of personal interest and value. Prerequisite: permission of department chair

BC4100 Microbiology Lecture/Lab 4 credits

This course introduces the diversity of microorganisms, including bacteria, fungi, algae, protozoans and infectious particles. The beneficial and detrimental effects of these microorganisms are explored, including human pathogens, biotechnology, food production and bioterrorism. The lab provides exposure to the standard microbiological tools used in clinical laboratories: sterile technique, pure culture, staining, selection of selective and differential media, biochemical tests, isolation of organisms from samples, antibiotic susceptibility and identification of unknowns. Prerequisite: BC3152

BC4104 Microbiology 3 credits

This course explores the world of microorganisms and human health. Pathogens associated with human illness are emphasized, including bacteria, fungi, viruses, parasites and prions. Prerequisites: BC3136 or BC3162

BC4105 Introduction to Western Pathology (AOM)

3 credits

This course explores the inflammatory process, cell injury and repair, basic immunopathology, cancer, and blood, hemodynamic and cardiovascular disorders. Prerequisites: BC3100 and BC3135 or BC3162

BC4108 Biophysics 2

1 credit

This course provides the application of conceptual and quantitative principles of physics to biological processes that are studied in the skeletal, muscular and cardiovascular systems. Students use physical principles to solve biological problems. Corequisite: BC3152 or permission of the instructor

BC4114 Disease Processes 4 credits

This course is designed for nutrition and herbal science students and is an introduction to pathology. The inflammatory process, basic immunopathology, diabetes, cancer, anemias and the most common and clinically relevant disease processes of the cardiovascular and gastrointestinal systems are covered. Prerequisites: BC3163 and BC4140

BC4115 Pharmacology Overview for Herbal Sciences

3 credits

This course teaches the basics of how the commonly used pharmaceutical drugs work. It emphasizes the mechanisms of actions, the adverse effects and the common therapeutic guidelines for drug treatment. Where appropriate, botanical mechanisms of action are discussed and possible areas of drugherb interactions are noted. Prerequisites: BC3163, BC4140

BC4116 Bioethics 3 credits

This course provides an opportunity for students to think critically about difficult ethical problems that emerge from scientific research and the application of medical technology to human biology. Discussions and assignments focus on personal decision making and public policy relevant to biomedical issues. Prerequisite: admission to the human biology program

BC4117 Biochemistry for Life Sciences 1 Lecture/Lab 5 credits Biochemistry of fuel metabolism, carbohydrates and lipids. This course is taught for undergraduates in herbal science, nutrition and health psychology (human biology track). This course is offered in both winter and summer. Prerequisite: a grade of at least a C- in either BC3123 or one quarter of college-level organic chemistry with laboratory. A grade of at least a C in one quarter of college-level biology with laboratory is also required.

BC4119 Intro to Research Proposals 2 credits Students work with a mentor to write a research proposal. Students who are working with human subjects also submit the proposal to the Institutional Review Board (IRB) for approval. This course is a prerequisite for BC9119 or BC9801. Prerequisites: all year-one courses

BC4125 Pharmacology Overview for AOM 4 credits Awareness of pharmaceuticals common to Western therapeutics is essential for proper patient assessment and care. In this course, students explore naming, dosing and general mechanisms for the activity and clearance of prescription and over-the-counter medications. Issues pertaining to prescribed medications and interactions with nonprescribed and/or substances of abuse are also explored. The actions, therapeutic rationale, benefits, risks and potential interactions of pharmaceuticals are emphasized. Prerequisites: BC3104 or BC4140, BC3136 or BC3163

BC4135 Biophysics 3

1 cred

This course provides the application of conceptual and quantitative principles of physics to biological processes that are studied in the respiratory, renal and reproductive systems. Students will use physical principles to solve biological problems. Corequisite: BC4153 or permission of the instructor

BC4140 Biochemistry for Life Sciences 2

4 credits

Topics include eicosanoids, cholesterol metabolism, amino acid metabolism and nucleotide metabolism. This course is taught for undergraduates in herbal science, nutrition and health psychology (human biology track). Prerequisite: a passing grade in BC4117

BC4153 Integrated Human Biology 3 Lecture/Iab 6 credits This course is a continuation of Integrated Human Biology 2. Basic principles of anatomy, physiology, biochemistry, and cell and developmental biology are integrated to provide an understanding of the renal, respiratory, digestive and reproductive systems. General themes or models are used to facilitate integration of concepts. The lab component emphasizes scientific inquiry and examines histology, anatomy, physiology and biochemistry of the systems. Prosected cadavers are used for anatomical study. Prerequisite: BC3152

BC4161 Advanced Cell & Molecular Biology 4 credits This course evaluates cellular function and genetic concepts from an experimental perspective. Emphasis is placed on the functional relationships between cellular structures, molecular genetics and biosynthetic functions with application to experimental data from human cells. Prerequisite: BC4153 or permission of instructor

BC4901, BC4902, BC4903 Independent Study variable credit These courses provide an opportunity for undergraduate students to study areas of interest that are not included in the regular curriculum. With the aid of a selected resource person, the student may explore a field of study that is of personal interest and value. Prerequisite: permission of department chair

BC5118 Disease Processes 1

3 credits

This course is designed for nutrition master's students and is an introduction to pathology. Included are the inflammatory process, cell repair and basic immunology. (For Disease Processes 2, see BC5132.) Prerequisite: admission to MS nutrition program

Gross Human Anatomy Lab 1-3

Students have the opportunity to locate anatomical structures with hands-on dissection. This allows students to visualize anatomy three-dimensionally and is invaluable when performing examinations in a clinical setting.

BC5122L Gross Human Anatomy 1 Lab 1 credit Fall quarter involves students dissecting the lower and upper extremities with faculty supervision. Prerequisite: admission to naturopathic medicine program. Corequisite: BC5151

See description preceding BC5122L. In winter quarter, students dissect regions of the neck, thoracic cavity and abdominal cavity to support the cardiovascular, respiratory and digestive systems. Regional anatomy is also covered as we dissect the anterior

BC5123L Gross Human Anatomy 2 Lab

neck, thorax and abdominal regions of the body. Prerequisite: grade of AC in BC5122L. Corequisite: winter quarter integrated systems modules for four-year track or BC6103 and BC6104 for five-year track

BC5124L Gross Human Anatomy 3 Lab 1 credit See description preceding BC5122L. In the first half of spring quarter, students dissect the deep back, spinal cord, skull and cranial fossae to best support the nervous system. The peripheral cranial and spinal nerves are dissected and their distribution explored and reviewed. The special senses are also covered. In the second half of the quarter, students dissect the anatomy to support the renal and reproductive system. Prerequisite: grade of AC in BC5123L. Corequisites: spring quarter integrated systems modules for four-year track or BC6105 and BC6106 for five-year track

BC5132 Disease Processes 2

2 credits

1 credit

This course is designed for nutrition master's students. It is a continuation of BC5118. This course is a systematic approach to pathology in which selected organ systems are explored with an emphasis on the most common and clinically relevant disease processes. (For Disease Processes 1, see BC5118.) Prerequisite: BC5118

BC5140 Research Methods in AOM 3 credits

This course provides an introduction to basic concepts of scientific methods, statistics, epidemiology and research methodology. Also explored are the state of AOM research and its interface with the research world. Emphasis is placed on gaining an understanding of how to read and evaluate AOM/medical published research articles. Students also practice applied research skills and use of the library and Internet. Prerequisite: admission to MSA or MSAOM program

BC5142 Fundamentals of Research Design 2 credits
This course provides the student with the basic knowledge
needed to evaluate the quality, internal validity, and external
validity of published research literature. This includes the basic
types of clinical epidemiological studies, the basic principles of
biostatistics, and an introduction to searching medical literature
databases, retrieving and interpreting relevant research information. The course is the foundation for Critical Evaluation of the
Medical Literature (NM7142) in which students learn how to
evaluate medical literature to achieve an evidence-based medical practice. Prerequisite: admission to naturopathic medicine
program or permission of instructor

BC5146 Physiology 1 Lab

1.5 credits

This module includes application of functional concepts for the cardiovascular, respiratory and digestive systems. Corequisites: winter quarter integrated systems modules

BC5147 Physiology 2 Lab

1 credit

This module includes application of functional concepts for the endocrine, renal and reproductive systems. Corequisites: spring quarter integrated systems modules

BC5150 Integrated Structure & Function Lecture/Lab 8.5 credits

This module begins by encouraging students to establish a learning community to support their success in the naturo-pathic medicine curriculum. Students are required to build a framework of core principles in histology, embryology and biochemistry. Students build a foundation of the structure and function of cells and tissues in order to predict the cellular response and adaptation to challenges. The module integrates concepts from cellular metabolism, molecular genetics, embryology and histology. The module also addresses the structure and function of the integumentary system. Lab addresses the histology of tissues and skin. Concepts in naturopathic philosophy are applied from the concurrent Naturopathic Theory and Practice 1 module, as appropriate. Lecture is taught in a hybrid-online format. Prerequisite: admission to the naturopathic medicine program

BC5151 Integrated Musculoskeletal Lecture/Lab 6.5 credits

This module requires students to apply core concepts to the basic structure and function of the nervous and endocrine system. It also includes the anatomy, biochemistry, histology, and physiology of the muscular and skeletal systems. Students integrate structure-function relationships of the musculoskeletal system in order to predict responses and adaptations to challenges. This module includes detailed anatomy of the limbs. Lab includes application of functional concepts. Scientific concepts for the musculoskeletal system are applied to the development of clinical skills in the Clinical Skills 1 module that is offered concurrently. Lecture is taught in a hybrid-online format. Prerequisite: admission to the naturopathic medicine program

BC5152 Integrated Cardiovascular and Immune

Systems 5.5 credits

This module includes the anatomy, embryology, biochemistry, histology and physiology of the cardiovascular system and blood. Students integrate the structure-function relationships of the cardiovascular system and blood in order to predict responses and adaptations to challenges. The module also includes an overview of the lymphatic system and immunity. Scientific concepts for the cardiovascular system are applied in the Clinical Skills 2 module that is taken concurrently. Lecture is taught in a hybrid-online format. Prerequisite: BC5150 or permission of basic sciences chair

BC5153 Integrated Respiratory System 4.5 credits

This module includes the anatomy, embryology, biochemistry, histology and physiology of the respiratory system. Students integrate the structure-function relationships of the respiratory system in order to predict responses and adaptations to challenges. Scientific concepts for the respiratory system are applied in the Clinical Skills 2 module that is taken concurrently. Lecture is taught in a hybrid-online format. Prerequisite: BC5150 or permission of basic sciences chair

BC5154 Integrated Digestive System 4.5 credits

This module includes the anatomy, embryology, biochemistry, histology and physiology of the digestive system. Students integrate the structure-function relationships of the digestive system in order to predict responses and adaptations to challenges. Scientific concepts for the digestive system are applied in the Clinical Skills 2 module that is taken concurrently. Lecture is taught in a hybrid-online format. Prerequisite: BC5150 or permission of basic sciences chair

BC5155 Integrated Endocrine System and Metabolism 4.5 credits

This module includes the anatomy, embryology, biochemistry, histology and physiology of the endocrine system with an emphasis on metabolic control. Students apply concepts of endocrine control to make predictions regarding changes in growth metabolism that influence the function of all organ systems. Scientific concepts for the endocrine system and metabolism are applied in the Clinical Skills 3 module that is taken concurrently. Lecture is taught in a hybrid-online format. Prerequisite: BC5150 or permission of basic sciences chair

BC5156 Integrated Renal and Reproductive System 4 credits This module includes the anatomy, embryology, biochemistry, histology and physiology of the renal and reproductive systems. Students integrate the structure-function relationships of these systems in order to predict responses and adaptations to challenges. Scientific concepts for the renal and reproductive systems are applied in the Clinical Skills 3 module that is taken concurrently. Lecture is taught in a hybrid-online format. Prerequisite: BC5150 or permission of basic sciences chair

BC5157 Integrated Nervous System Lecture/Lab 7 credits This module includes the detailed anatomy, embryology and physiology of the brain, spinal cord and spinal nerves. Students integrate structure-function relationships for both the somatic motor and autonomic divisions of the peripheral nervous system. Students also address the integrative functions of the cerebral cortex and sensory and motor pathways required to predict sensory and motor deficits that occur with specific lesions. Lab includes work with sectioned brains and applications of functional concepts. Scientific concepts for the nervous system are applied to the development of clinical skills, including testing of somatic reflexes in the Clinical Skills 3 module that is taken concurrently. Lecture is taught in a hybrid-online format. Prerequisite: BC5150 or permission of basic sciences chair

BC5901, BC5902, BC5903 Independent Study variable credit These courses provide an opportunity for graduate students to study areas of interest that are not included in the regular curriculum. With the aid of a selected resource person, the student may explore a field of study that is of personal interest and value. Prerequisite: permission of department chair

BC6100 Pharmacology of CHM and Drug Interactions 2 credits This course provides an overview of the active constituents found in commonly used Chinese herbs and their potential interactions with pharmaceuticals. It also details the *in vitro*, *in vivo* and clinical trial evidence for efficacy. Prerequisites: BC3104, BC4125

BC6101 Integrated Immunology, Pathology and Infectious Diseases 1 5.5 credits

This module includes the histology, physiology and pathology of the immune system, an introduction to infectious diseases and core principles of pathology. Principles of pathology and immunology are applied in the context of cancer. Scientific concepts are applied to the development of diagnostic skills in the Naturopathic Clinical Diagnosis 1 module that is taken concurrently. Lecture is taught in a hybrid-online format. Prerequisites: completion of all first year integrated systems modules. Corequisite: NM6310

BC6102 Integrated Immunology, Pathology and Infectious Diseases 2 2.5 credits

This module includes the pathology and infectious diseases and applications of immunology to blood, skin and the musculoskeletal system. Scientific concepts are applied to the development of diagnostic skills in the Naturopathic Clinical Diagnosis 1 module that is taken concurrently. Lecture is taught in a hybrid-online format. Prerequisites: completion of all first year integrated systems modules. Corequisite: NM6310

BC6103 Integrated Immunology, Pathology and Infectious Diseases 3 3 credits

This module includes the pathology, infectious diseases and applications of immunology to the cardiovascular system. Scientific concepts are applied to the development of diagnostic skills in the Naturopathic Clinical Diagnosis 2 module that is taken concurrently. Lecture is taught in a hybrid-online format. Prerequisites: BC6101, BC6102. Corequisite: NM6311

BC6104 Integrated Immunology, Pathology and Infectious Diseases 4 4 credits

This module includes the pathology, infectious diseases and applications of immunology to the respiratory and digestive systems. Scientific concepts are applied to the development of diagnostic skills in the Naturopathic Clinical Diagnosis 2 module that is taken concurrently. Lecture is taught in a hybrid-online format. Prerequisites: BC6101, BC6102. Corequisite: NM6311

BC6105 Integrated Immunology, Pathology and Infectious Diseases 5 4

This module includes the pathology, infectious diseases and applications of immunology to the renal and reproductive systems. Scientific concepts are applied to the development of diagnostic skills in the Naturopathic Clinical Diagnosis 3 module that is taken concurrently. Lecture is taught in a hybrid-online format. Prerequisites: BC6103, BC6104. Corequisite: NM6312

BC6106 Integrated Immunology, Pathology and

Infectious Diseases 6 2 credits
This module includes the pathology, infectious diseases and applications of immunology to the endocrine and nervous systems. Scientific concepts are applied to the development of diagnostic skills in the Naturopathic Clinical Diagnosis 3 module that is taken concurrently. Lecture is taught in a hybrid-online format. Prerequisites: BC6103, BC6104. Corequisite: NM6312

BC6134 Advanced Living Anatomy 1 credit

This course combines Western anatomy with advanced acupuncture point locations to enhance clinical skills and outcomes. The course uses musculoskeletal anatomy through lecture, palpation and the study of cadavers. Anatomical connections to advanced acupuncture point location are reinforced in both surface anatomy and in the required weekly cadaver laboratory. Prerequisite: BC3134

BC7300 Pharmacology 1

1 credit

Pharmacology related to neural and endocrine disorders integrated into nervous and endocrine system modules. Prerequisite: NM6302. Corequisites: NM7318, NM7319, NM7321

BC7301 Pharmacology 2

1 credit

Pharmacology related to cardiovascular, respiratory, and digestive system disorders and integrated into systems modules. Corequisites: NM7322, NM7323, NM7324

BC7302 Pharmacology 3

.5 credit

Pharmacology related to renal and reproductive system disorders and integrated into systems modules. Corequisites: NM7328, NM7329, NM7331

BC9103 Neurological Diseases 2 credits

This seminar course explores the known environmental and genetic factors that are associated with Parkinson's disease and Alzheimer's disease, and examines how genes and environment interact in determining disease predisposition. Dietary factors are also discussed for their protective or predisposing roles in the development of neurological diseases. Students review papers that provide epidemiological or experimental evidence for the predisposing and protective agents of neurological diseases. Students have an opportunity to present an article and lead a class discussion. Prerequisites: BC3149, BC5142 or TR5104 or permission of instructor

BC9104 Immunology 4 credits

This course explores the normal mechanisms by which the immune system protects against disease-causing agents. The focus is on the basic concepts of human immunity, including nonspecific and specific host defenses. Prerequisite: BC3152 or permission of instructor

of instructor

BC9105 Laboratory Research 2 credits

This laboratory course is designed to enable students to learn basic experimental techniques used in preclinical biomedical research studies. Prerequisites: one year of biology or equivalent (to be assessed and approved by instructor) and one year of chemistry or equivalent. Students must take the bloodborne pathogen safety training prior to start of class. Contact the safety coordinator for upcoming dates.

BC9106 Human Biology & Toxicology This course introduces the biochemical, cellular and physiologic responses of human tissues to toxic doses of chemicals and radiation. Prerequisite: BC3152 or permission of instructor

BC9107 Virology 3 credits This course introduces the molecular biology of animal viruses and examines virus-host relationships, including viral pathogenesis. Unusual infectious agents including viroids and prions are also studied. Prerequisite: BC4100 or permission of instructor

BC9108 Pathophysiology 3 credits This course assesses the biological basis for disease. The course focuses on the mechanisms by which disruption of normal homeostatic mechanisms result in the development of many common disease states. Prerequisite: BC4153 or permission

BC9112 Advanced Topics in Human Biology This is a seminar course with a focus on current topics related to human biology. Students read and discuss current research papers. Prerequisite: BC4153

BC9114 Natural Products 2 credits

This course covers the mechanism of action, constituent compositions, classification and the biosynthetic pathways of relevant constituents in natural products (secondary metabolites of plants, fungi or marine organism). Methods of standardization and quantification as well as the chemical ecology of natural products are discussed. Prerequisite: BC3123 or equivalent

BC9117 Advanced Lab Research Methods 2 credits This two-credit laboratory course is for individuals who have completed the basic Laboratory Research course. In this course, with appropriate guidance from the instructor, the goal is for the student to design and carry a small research project to completion. Prerequisite: BC9105 or permission of instructor. Students must take the bloodborne pathogen safety training prior to start of class. Contact the safety coordinator for upcoming dates.

BC9119 Directed Study Research 0-5 credits Students complete an original research project under the supervision of a previously approved faculty mentor or external advisor. The research proposal for the project is completed in the Introduction to Research Proposals course. Students are required to present the results of the study to the Bastyr community. May be repeated with permission of departmental committee. Prerequisite: approval of a departmental committee

BC9801 Internship

0-5 credits

Students complete a supervised work experience with a previously approved business firm, clinic or governmental agency. Students are required to present a summary of the internship experience to the Bastyr community. May be repeated with permission of departmental committee. Prerequisite: approval of a departmental committee

BOTANICAL MEDICINE

Sheila Kingsbury, ND, RH (AHG), Department Chair

BO2101 Introduction to Botany Lecture/Lab 3 credits In introducing students to plant science, this course encompasses the study of plants from the molecular to the ecosystem level. Topics include cellular biology, morphology, physiology, classification and evolutionary relationships, life cycles, and introductory ecology. The course emphasizes the importance of plants and their products in the life of the planet and the interdependence of all living things. Prerequisite: college-level biology

BO3103 Botany 1 Lecture/Lab

This course expands upon basic concepts of botany as they relate to the herbal sciences. It explores plants as a kingdom with unparalleled importance for the rest of planetary life and presents important concepts from botanical disciplines, including plant identification, plant physiology, economic botany, ethnobotany, ecology and plant genetics. Prerequisite: BO2101

BO3104 Organic Gardening

2 credits The goal of this class is to give students the knowledge and skills necessary to design and implement a perennial or annual organic garden. Topics explored include soil fertility, garden cultivation, transplanting and direct seeding, irrigation principles, composting, pest and weed management, soil testing, and social and environmental issues in agriculture. Prerequisite: none; however, students in the CHLD program cannot use this course toward their elective requirement

BO3105 Plant Identification Lecture/Lab This course develops plant taxonomy and morphology skills. Students learn distinguishing plant family characteristics and the use of a dichotomous key for identification. Basic life cycles of major plant groups are studied in relation to habitat, seasonal changes and climate impact. Outdoor field work, live plant laboratory study and herbarium samples are utilized to aid in developing identification skills. Prerequisites: BO3103, BO3108

BO3108 Introduction to Herbal Sciences Lecture/Lab

As the beginning of the Herbal Sciences foundational coursework, Introduction to Herbal Sciences introduces students to diverse aspects of herbalism including current sociopolitical and legal trends, ethics, sustainable plant conservation, herbal terminology and preparations, manufacturing and retail site visits, and forest, field and garden herb walks. Prerequisite: admission into herbal sciences program or permission from the department

BO3114 Herbal Preparations

3 credits

This course presents the pharmacy of herbal medicine where the focus is on preparations from plants to products. This is a medicine-making lab. Students participate hands-on in the making of preparations for internal and topical use, including infusions and decoctions, tinctures, and other extracts, creams and ointments, compresses, poultices, suppositories and more. Local plant identification and harvesting techniques and practices are incorporated. Prerequisite: BO3108

BO3115 Herbal Medicine History and Traditions

2 credits

World herbalism is the focus of this course, introducing students to diverse cultures of herbal practices. Systems to be studied include Native American, ayurvedic, TCM, Thompsonian, physiomedical and eclectic. The energetic aspects of herbs and plant spirit medicine are explored. Prerequisite: BO3114 or permission from the department

BO4100 Herbs and Food 3 credits

This course surveys diverse topics regarding herbs and food, with attention to the cultural and dietary evolution of herbal usage, herbal sources of primary nutrients, and the role of digestion, emphasizing herbal influences. Students gain an understanding of how to grow, harvest and utilize herbs to best obtain and maintain the highest nutrient availability. Prerequisites: BC3123, BC3163, BC4140, BO3114 or BO6305 or BO9100

B04102 Research Methods for Herbal Sciences 2 credits This course is an introduction to research methods. Included are the basic concepts of scientific methods, epidemiology and research methodology. Students practice applied research skills such as use of the library and Internet and evaluation of research literature. Prerequisites: BC3161, BO3103, BO3108

BO4103 Botany 2 Lecture/Lab 3 credits

This course deepens the botanical knowledge of students by presenting selected topics in advanced botany. It presents plant development, and classic and modern methods of plant propagation. Students explore plant constituents in depth, including the classes of plant hormones and plant toxins, their roles in plants and humans, as well as the various groups of secondary plant substances that generate unique plant colors, spices, fragrances and medicine. Prerequisites: BO3103, BO3105, BO3114

BO4107 Materia Medica 1 for Herbal Sciences

Lecture/Lab 5 credits

This course is the introduction to the materia medica series, taught with a foundation in plant taxonomy and pharmacognosy. The plant family structure acts as a mapping for learning nomenclature, energetics, folklore, chemical constituents, medicinal applications, pharmacy, toxicology and safety factors of chosen botanicals. Key actions of the herbs are explored based on several world herbal models, and the science and art of formulating are developed. Prerequisites: BC3163, BC4140, BO3105, BO3114

BO4108 Materia Medica 2 for Herbal Sciences

Lecture/Lab 5 credits

Materia Medica 2 is a continuation of the study of materia medica with an emphasis on a different set of botanical families through lecture, lab and experimentation. See description of BO4107. Prerequisite: BO4107

BO4109 Materia Medica 3 for Herbal Sciences

Lecture/Lab

5 credits

Materia Medica 3 is a continuation of the study of materia medica with an emphasis on a different set of botanical families through lecture, lab and experimentation. See description of BO4107. Prerequisite: BO4108

BO4111 First Aid for Herbalists

2 credits

This class covers a wide range of first aid situations, including safety protocols and scope of care for herbalists, acute-care scenarios, pain remedies, materia medica, infections, allergies, preparing a first aid kit, commonly found first aid plants, injuries and wounds, burns, food and water sickness, animal bites and stings, and other first aid circumstances. Prerequisite: BO3114 or permission from department

BO4112 Northwest Herbs

1 credit

This is a field and lab course focusing on the plants of the Pacific Northwest. This class focuses on plant recognition and identification, botany, ethnobotany and medicinal application of the plants found in the outdoor classroom of the Bastyr University campus. The class is primarily an outdoor field class, exploring all the new growth of the spring season, with some lab sessions to work with preparations of the plants being studied. Prerequisites: BO4129 or permission from instructor

B04119 Pharmacognosy for Herbal Sciences 2 credits This course looks at the chemistry of secondary metabolites in medicinal plants, algae and fungi. This chemical knowledge is then used to construct an understanding of real-world applicability in areas such as extraction techniques, medicinal activities and nutritional aspects in an active-learning environment. Prerequisites: BC4140, BO3108

BO4122 Test Methods for Botanical Authentication

Lab 2 credits

This course develops the ability of the student to identify and evaluate the authenticity and quality of raw herbal material. Organoleptic skills, involving the senses of sight, touch, smell and taste, are explored along with microscopic identification and interpretation of assay and spec sheets. Chromatographic analysis is introduced. Prerequisites: BC4140, BO3105

BO4123 Soil Ecology 1 credit

This course focuses on the interaction of the soil-food-web, the diversity of soil organisms (bacteria protozoa, fungi, animals, plants) in natural and managed ecosystems; roles in primary metabolism; nutrient cycling; decomposition and reclamation; and responses to environmental change. Explore soil testing methods and soil building techniques, including cover crops, mulching, composting, vermiculture and use of compost teas. Prerequisite: none

BO4124 Introduction to Biodynamic Agriculture

2 credits

This course explores the comprehensive and cosmological methods behind the biodynamic farming movement inspired by Rudolf Steiner. A lab component includes the preparation and use of various biodynamic foliar sprays, compost preparations, and associated practices that contribute to soil health and stimulate plant vitality while enhancing the overall nutritional quality of food crops. An overview of requirements for biodynamic certification and ongoing research demonstrating the ecological benefits of biodynamic agriculture are provided. Prerequisite: none

BO4125 Introduction to Herb/Drug Interaction

2 credits

This course takes the pharmacokinetics and pharmacology of the herbs and drugs and reviews potential interactions and the postulated mechanisms. Students review the literature of documented herb/drug interactions and critically analyze these reports. Prerequisites: BC3163, BC4115, BC4140, BO4102, BO4108, BO4119

BO4127 Mycology 1 credit

This course focuses on the ecological role of mushrooms in building and maintaining an edible landscape. An overview of mushroom cultivation techniques is provided. Learn about mycoremediation and mycofiltration and how mushrooms can be used to transform toxic wastes into less harmful substances, augmenting environmental degradation. Prerequisite: none

BO4128 QAQC - Quality Assurance/Quality Control Lecture/Lab 2 credits

This course combines analytical rigor of quality control with the whole-system aspects of quality assurance in an industry context. Students experience quality assurance practice in a problem-based format relating to the herbal industry. They explore QA as an attitude, a way of working, which not only improves businesses but the way people work and live. The lab emphasizes the practice of QC procedures and protocols through a comparison of herbal products using analytical equipment and methodology, including GC, HPLC and spectrophotometry. Prerequisites: BC4104. BO4107. BO4122

BO4129 Ethnobotany 2 credits

This course is designed to introduce the basis of ethnographic methodology. It explores the world and different cultures, people's past and present use of plants, food, medicine, shelter, clothing, etc. Various regions are discussed and contrasted from anthropological and historic perspectives. Indigenous guests are invited to represent their ways of life. Prerequisite: none

BO4131 Permaculture 1 Lecture/Lab 3 credits

This course introduces the concept of permaculture design and its role in integrating sustainable, regenerative systems into any landscape. Students learn how the core set of permaculture design principles and ethics guides every step of the design process — bringing in natural patterns, utilizing ecological principles, connecting design elements with function and utilizing natural energy sources. A lab explores pattern recognition, reading the landscape, flow diagrams, zone and sector analysis, data collecting, basic drafting skills, mapping and design exercises. Prerequisite: admission into the holistic landscape design certificate program or permission of the program chair

BO4132 Permaculture 2 Lecture/Lab 3 credits

This course focuses on how energy flows through natural systems, creating biogeographical climate types and global weather patterns. Students learn about analogue climates, renewable energy systems, appropriate technology and permaculture design strategies specific to various climate types. Emphasis is on permaculture strategies for water management in rural or urban system. A lab introduces keyline systems and earthworks, practical ways of assessing slope and techniques for trapping and storing energy. Winter tree pruning and grafting techniques are also introduced. Prerequisite: BO4131

BO4133 Permaculture 3 Lecture/Lab 3 credits

This course focuses on land use systems for achieving self-reliance by integrating cultivated ecosystems, permaculture design techniques and agroforestry practices. Topics include establishing and maintaining medicinal and edible food forests; animals and insects in permaculture systems; wildlife management and agroforestry practices including windbreaks, hedgerows and alleycropping, silvopasture, riparian buffers and forest farming. A lab explores practical elements plant guild assembly, orchard design, forest management, animal husbandry and beekeeping. Prerequisite: BO4132

BO4134 Organic Seed Production 1 credit

Collecting seed from superior plant stock has been practiced for thousands of years, resulting in higher yields and bioregionally adapted plants. This course provides an overview of seed physiology and explores the importance of seed banks, as well as participatory plant breeding projects. Students learn the processes of preserving valuable genetic material—seed harvesting, seed cleaning/extraction, storage, viability and record keeping. Seed types, isolation distances and practical breeding techniques are discussed. Prerequisite: none

BO4135 Organic Greenhouse & Nursery Management 1 credit

This course provides an overview of important techniques to insure plant health from seed to market. Through hands-on experience, students learn about plant propagation techniques, plant selection, potting media for various plant types and ways to balance the elements of soil, air, light, moisture and heat in the greenhouse. Ideas for establishing and maintaining a small-scale landscape or market nursery are explored through site visits and guest instructors. Prerequisite: none

BO4137 Horticultural Research and Grant Writing

1 credit

This course reviews how to pursue and participate in horticultural research and how techniques learned throughout this program can be applied in research studies. Grant writing basics are also taught with a focus on how to apply for grant funding for horticultural research or permaculture projects. Prerequisite: none

BO4138 Biointensive IPM & Plant Health

2 credits

Explore the principles and applications of biointensive integrated
pest management (IPM), which integrates ecological and economic factors into agricultural system design and management.

The primary goal of biointensive IPM is to provide guidelines and
options for effectively managing pests and beneficial organisms
in an ecological context and addresses public concerns about
environmental quality and food safety. Signs and symptoms of
plant deficiencies and diseases are examined and treated with
appropriate organic inputs in order to restore balance to the
soil, shifting the disease state. Prerequisite: none

BO4139 Permaculture in a Global Context

This course explores social permaculture and the invisible structures that either support or degrade human settlements. Students learn ways in which permaculture principles and ethics can be utilized to cultivate sustainable communities and cooperative economies. Topics include design models and strategies for developing broad-scale urban and village systems, ways to retrofit existing urban environments, strategies for circumventing natural disasters, and the dynamics of cultivating community—consensus building, community wellness, food security, grafting community knowledge and resources, community-scale industry, cooperative legal systems, land access strategies, land restoration, and earthworks. Prerequisite: BO4133

BO4141 Medicinal & Edible Plants in the Landscape 1 1 credit

This course explores the many attributes of a wide variety of medicinal and edible plants that add beauty and utility in cultivated landscapes. Propagation, cultivation, environmental tolerances and harvesting methods are discussed with an additional emphasis on the therapeutic properties of the plants. Emphasis is on deciduous and evergreen trees. Prerequisite: admission into the holistic landscape design certificate program or permission of the program chair

BO4142 Medicinal & Edible Plants in the Landscape 2

This course explores the many attributes of a wide variety of medicinal and edible plants that add beauty and utility in cultivated landscapes. Propagation, cultivation, environmental tolerances and harvesting methods are discussed with an additional emphasis on the therapeutic properties of the plants. Emphasis is on shrubs and woody perennials. Prerequisite: BO4141

BO4143 Medicinal & Edible Plants in the Landscape 3 1 credit

This course explores the many attributes of a wide variety of medicinal and edible plants that add beauty and utility in cultivated landscapes. Propagation, cultivation, environmental tolerances and harvesting methods are discussed with an additional emphasis on the therapeutic properties of the plants. Emphasis is on herbaceous annuals and perennials. Prerequisite: BO4142

BO4144 Horticultural Business Practices 1 credit This course explores the niches available for permaculture landscape designers with a medicinal and edible plant focus. A panel of local horticultural business owners (herbalists, permaculturists and horticulturists) share their experiences and expertise. Students learn about local CHLD practicum sites through site visits and presentations. Business models for growing and harvesting medicinal plants, establishing a medicinal plant nursery or creating value-added products are explored, plus an introduction to practices essential for operating and managing a successful horticultural business. Prerequisite: none

BO4150 Research Applications 1 credit

This is the final course in a series of research and analytical testing methods courses designed for the herbal sciences program. This course allows the application of the knowledge previously gained by giving students the chance to propose a QAQC testing project and to complete it and present the results to their peers. Prerequisite: BO4128

BO4801 Herbal Sciences Practicum 1 credit

This course introduces students to the practical application of herbal knowledge. Possible practicum sites include herbal product manufacturers, growers and wildcrafters, herbal researchers, practitioners, and educators. Evaluation based on successful completion of hours, self evaluation, site evaluation of student and brief presentation to cohort. Prerequisite: completion of the first quarter and concurrent enrollment in the second quarter of the herbal sciences curriculum

BO4810 Holistic Landscape Design Practicum 1 credit This capstone course provides students with the opportunity to design and implement a final project that demonstrates and integrates elements of permaculture design with other tools and concepts gained from the CHLD curriculum. Students work in teams to develop a practical, sustainable and bountiful permaculture landscape design that reflects an understanding of the site and the needs of the client. In addition to site assessment and the establishment of goals and timelines, teams are expected to create base maps and overlays as well as estimate budgets and expenses. Prerequisite: BO4132

B06305 Botanical Medicine Lab 1 cree

This course teaches students botanical terminology and the basics of pharmacognosy. Students are trained in organoleptic and other assessment tools pertaining to quality of plants and plant products. Students are taken from fresh plant harvest to production and storage of herbal products and learn the variety of medicine making techniques used in industry as well as in smaller clinic settings. Prerequisite: admission to the naturopathic medicine program, concurrent with NM6300

BO6901, BO6902, BO6903 Independent Study

variable credit

A student may contract with a botanical medicine faculty member or approved faculty or professional to do an in-depth study in an area not covered in the botanical medicine curriculum. The independent study may include pre-approved botanical medicine research projects or studies in traditional herbal medicine. Prerequisites: BO6305 and permission of department chair

BO7305 Botanical Medicine Formulation Lab 1 credit This lab course follows the initial Integrative Therapeutics series. Students, having been introduced to the majority of the Western herbal medicines, now learn how to formulate and create those medicines for cases structured to match the year-three modules. This course teaches formulation skills and case-based medicine making for musculoskeletal conditions. Corequisites: NM7310 or permission of the dean or chair of program

BO7306 Botanical Medicine Formulation Lab 2 1 credit This course is a continuation in the series of advanced botanical medicine formulation and case-based medicine making. This course focuses on the nervous system, endocrine and mental health conditions. Corequisites: NM7321, NM7319, NM7318; or permission of the dean or chair of program

BO7307 Botanical Medicine Formulation Lab 3 1 credit This course is a continuation in the series of advanced botanical medicine formulation and case-based medicine making. This course focuses on gastrointestinal, cardiac, hematological and respiratory conditions. Corerequisites: NM7322, NM7323, NM7324 or permission of dean or chair of program

BO7308 Botanical Medicine Formulation Lab 4 1 credit This course is a continuation in the series of advanced botanical medicine formulation and case-based medicine making. This course focuses on female and male reproductive and urological conditions. Corequisites: NM7328, NM7329, NM7331 or permission of dean or chair of program

BO7901, BO7902, BO7903 Independent Study variable credit

A student may contract with a botanical medicine faculty member or approved faculty or professional to do an in-depth study in an area not covered in the Bastyr curriculum. The independent study may include pre-approved botanical medicine research projects or studies in traditional herbal medicine. Prerequisites: BO7305 and permission of department chair

BO8301 Botanical Medicine Formulation Lab 5 1 credit This course is a continuation in the series of advanced botanical medicine formulation and case-based medicine making. This course focuses on advance case topics. Corequisites: NM8304, NM8305, or permission of dean or chair of program

B08901, B08902, B08903 Independent Study variable credit A student may contract with a botanical medicine faculty member or approved faculty or professional to do an in-depth study in an area not covered in the Bastyr curriculum, or to participate in a botanical medicine research project. The independent study may include pre-approved botanical medicine research projects or studies in traditional herbal medicine. Prerequisites: B07305 and permission of department chair

BO9100 Herbal Medicine Making for All (lab) 1 credit This course is an introduction to herbal medicine making and applications. The class is designed for interested students and staff, especially for those students whose programs do not offer classes in herbal medicine and for those who want to have hands-on experience in the lab learning about herbs and herbal preparation. The class introduces home remedies in the form of tinctures, teas, infused oils, salves, creams, poultices, hydrosols, steams and bath salts. Prerequisite: none; however, students in the Herbal Sciences or ND program cannot use this course toward their elective requirement.

BO9112 Plants in Ceremony: An Exploration of Yourself 2 credits

This course is a three-day exploration of the state of spirit and soul through the use of plants in ceremony. It includes both individual and group evaluation of who you are, where you come from, what you have and want to experience. The class takes each individual and the group into sacred space to access and facilitate an experience of deep healing. Plant spirits, masks, drumming, toning, chanting and the use of herbs both internally and externally are the tools for growth and change. Prerequisite: none

BO9115 Herbs and Ayurvedic Medicine 2 credits
This course engages the student in a "process-centered" approach to ayurvedic botanical medicine, focusing on therapeutic objectives and herbal actions. The class discusses case strategy and the role of individual ayurvedic herbs, ayurvedic polyherb formulas and herb actions from the ayurvedic perspective. Each section of materia medica includes an ayurvedic overview of the system/function, ayurvedic energetics, A and P review, ayurvedic pathology and herbal properties used in treatment of that system. Prerequisite: none

BO9116 Cascade Herb Experience 2 credits

This three-day herbal medicine field course is designed to introduce students to recognizing and wildcrafting native plant species in the North Cascades. The weekend includes ethical wildcrafting as well as identifying plants, medicine making and harvesting from cultivated gardens. This camping experience includes a medicine-making workshop, group meals and several field sojourns to explore various habitats and ecosystems. The activity fee covers tent camping fees and food. Prerequisite: BO3114, BO6305 or BO9100

BO9118 Herbal Medicine in Italy

3 credits This course combines herbal medicine and Italian culture. Throughout two weeks in Italy, students learn the history and medical applications of plants, explore cultivated and wild fields, and visit herbal manufacturers. The course utilizes the

facilities and museum of the Italian herb company Aboca and the University of Salerno. Students are responsible for their airfare to Italy and personal expenses. The student fee covers group accommodations, transportation, one meal per day and any group events. A nonrefundable deposit is required upon registration. Prerequisite: none

BO9119 Clinical Pharmacognosy 2 credits

This course reviews the secondary metabolites in plants, algae and fungi that are fundamental to their medicinal activities. This information is presented in a clinically relevant manner, as opposed to focusing solely on the chemistry of the compounds. Major classes of constituents including terpenoids, phenylpropanoids, resins, glycosides, alkaloids and saponins are discussed. Prerequisite: BO4107 or NM6301

BO9121 Botanical Studies in Costa Rica 3 credits This botanical field course combines herbal medicine, Latin American culture and holistic land stewardship. Over 10 days, students explore botanical medicine in the jungle canopy, rivers, mountains and ocean beaches. The class visits herbal farms, preservation gardens, jungle wilderness, and sustainable communities, and interacts with folk herbalists from the abuelo's generation, as well as world-renowned, modern permaculturists. Students are responsible for their airfare to Costa Rica and personal expenses. The student fee covers all meals, accommodations, transportation and all group events. A nonrefundable deposit is required upon registration. Prerequisite: none

BO9127 Herbal Medicine Throughout Oregon

3 credits

This is an eight-day field course, touring the variety of herbal growing and manufacturing facilities throughout western Oregon. Students explore the production of herbal medicines from seed to final products, including plant identification, cultivation, manufacturing possesses and clinical applications of medicinal plants. A nonrefundable deposit is required upon registration. Prerequisite: none

BO9128 Plant Identification and Medicinal Field Botany 3 credits

This elective class combines morning classroom study and afternoon field trips to introduce plant taxonomy and morphology. Key characteristics distinguishing native plant families, the use of a dichotomous key to identify NW plants, and life cycles of each major plant group are taught. Afternoon field trips to mountains, forests and parks emphasize plant identification topics as well as medicinal aspects of plants. Field trips include four hours on site plus one-two hours travel time before and after class. Prerequisite: College Biology

BO9129 Island Herb Experience

2 credits

This three-day course focuses on medicinal plants and sea plants in their natural habitat, studying plant identification, botany, properties, ecology, harvesting and lore. Students have the opportunity to gather wild herbs and sea plants and prepare tinctures and other medicines. Prerequisite: none

BO9302 Flower Essences

2 credits

"Disease will never be cured or eradicated by present materialist methods, for the simple reason that disease in its origin is not material." (Dr. Edward Bach, 1931). Flower essences — subtle extracts still made from many of the original plants found in the region of Dr. Bach's home in England — are used to address issues of emotional well-being, soul development and mind/ body health. This elective is an introductory course in the origins, nature and therapeutic use of the Bach Flower Remedies. Prerequisite: none

BO9306 Clinical Formulations and Applications of **Botanical Medicine** 1 credit

In this course students learn how to use botanical formulations for specific common clinical conditions. Botanicals are grouped by condition and offer specific formulas and applications that are most effective for specific ailments. Students learn how to mix essential oils and other liquid extracts, which liquid extracts are incompatible, how to use toxic herbs as low-dose formula activators, and how to make formulas taste good. Prerequisite: BO4107 or NM6300 and BO6305

BO9401 Foundations of Aromatic Medicine This class creates a dynamic that clearly integrates the uses of essential oils within traditional herbal medicine. In this two-day intensive, the student is guided to understand and utilize the world of aromatic medicine. An understanding of major functional chemistry groups, aldehydes, esters, ketones, monoterpenes alcohols, phenols, etc., and clinical application is included. Materia medica of 11 primary essential oils is studied. Prerequisite: none

BO9405 Introduction to Gemmotherapy
This course unfolds the principles of gemmotherapy as a phytotherapeutic method of drainage. Included are the preparation,
posology and safety issues when using these plant stem cell
therapies, as well as the phytochemical analysis of the gemmos.
An overview of the 50 primary remedies gives details about each
remedy through organ system affinity. Clinical applications are
included each week through case study analysis. Prerequisite:
none. Open to all students interested in the study of gemmotherapy, but class is taught at a clinical level.

BO9528 Appalachia Field Course

2 credits
This course combines herbal medicine and Appalachian culture.
It is a 10-day course that explores the traditional early American use of native East Coast plants and experiences the music, scenery and life in the Appalachian hills throughout the mid- to south east coast U.S. region. We visit historical sites, homes of families that have been Appalachian herbal wildcrafters going back to the 1700s, see the Great Smoky Mountains, the Land of the Waterfalls and more. Students learn plant identification, harvesting and traditional medicine-making as well as history and culture of the regions we visit. Students are responsible for their airfare and personal expenses. The course fee covers group accommodations, transportation, most meals and events. A deposit is required upon registration. Prerequisite: none

BO9533 Southwest Herb Experience 2 credits
Students travel across the Sonoran desert in southern Arizona
and California, learning plant identification and medicinal uses of
the plants encountered. Some of the most important and powerful herbal medicines of North America come from this region.
The ecology of the desert and what makes the Sonoran special
are discussed. Practical medicine making, safe and sustainable
harvesting, first aid, and non-medicinal uses are also reviewed.
The activity fee covers all meals, accommodations, group events,
and transportation while on the trip. Students are responsible for
their airfare and personal expenses. A non-refundable deposit is
required upon registration. Prerequisite: completion of BO3108
or NM6300 or equivalent

BO9543 Asian Medicinal Plant Horticulture 1 credit
The wide variety of plants used in traditional East Asian medicine
makes them a rich source of biodiversity for the landscape.
Domestic cultivation of these species may have long-term income
potential for growers and landowners. In this course, students
will examine groups of Asian species in terms of their family
relationships, including native North American species, as well
as their ecology and function in the landscape. Basic principles
of horticulture including propagation, planting and harvesting
will be taught using specific examples from each group of plants.
Related issues, including conservation and marketing will be
addressed. Prerequisite: none

BO9544 A Survey of Botanical Regulation 1 credit This course explores the world of botanical regulation. Topics provide insight into the processes involved in legally manufacturing, distributing, and advertising botanical products as dietary supplements or botanical drugs within the United States. In addition, this course introduces students to international botanical regulations and provides context for these regulations on a global front. Prerequisite: none

CHINESE HERBAL MEDICINE CERTIFICATE

For acupuncture and Oriental medicine courses, see alphabetical listings beginning with OM. A grade of C or higher is required to pass all AOM/CCHM courses.

CH5901, CH5902, CH5903 Independent Study

variable credit

These courses provide an opportunity for students to study areas of interest that are not included in the regular curriculum. With the aid of a selected resource person/sponsor, the student may explore a field of study in Chinese herbal medicine of personal interest and value. Prerequisite: permission of dean

CH6105 Chinese Herb Preparations 1 credit

This course provides students with hands-on experience in cooking and preparing Chinese herbal preparations. The course covers various ways to prepare decoctions; preparation of pills, powders and granules; topical applications and further refinement of moxa based products. Prerequisite: CH6423

CH6408 Chinese Herbal Therapeutics 1 4 credits
This course is part of a four-quarter series covering the therapeutic clinical applications of Chinese herbal medicine. This first course covers a variety of common internal medicine conditions, including respiratory, cardiovascular, gastrointestinal, genitourinary and endocrine conditions. Prerequisites: CH6431, CH6432

CH6409 Chinese Herbal Therapeutics 2 4 credits This course is part of a four-quarter series covering the therapeutic clinical application of Chinese herbal medicine. This second course focuses on gynecology, obstetrics and pediatric diseases. Prerequisites: CH6431, CH6432

CH6410 Chinese Herbal Therapeutics 3 4 credits This course is part of a four-quarter series covering the therapeutic clinical applications of Chinese herbal medicine. This third course focuses on eye/ear, nose, throat and dermatology, as well as an overview of sexually transmissible diseases. Prerequisites: CH6431, CH6432

CH6411 Chinese Herbal Therapeutics 4 4 credits This course is part of a four-quarter series covering the therapeutic clinical applications of Chinese herbal medicine. This fourth and final course covers musculoskeletal and connective tissue conditions, including acute sports injury, with focus on internal and external applications for pain, burns and trauma. Prerequisites: CH6431, CH6432

CH6421 Chinese Materia Medica 1 4 credits

This course is part of a three-quarter series covering the Chinese materia medica. This first quarter focuses on herbs that release the exterior, quell fire, cool blood, drain dampness, drain downwards, dispel wind dampness and release food stagnation. Prerequisite: admission into MSAOM or CCHM program

CH6422 Chinese Materia Medica 2 4 credits

This course is part of a three-quarter series covering the Chinese materia medica. This second quarter focuses on herbs that clear heat and relieve toxicity, clear deficient heat, clear summer heat, transform phlegm, relieve coughing and wheezing, regulate qi, promote the movement of qi, invigorate blood, transform congealed blood, stop bleeding and warm the interior/expel cold. Prerequisites: admission into MSAOM or CCHM program, CH6421 or permission of instructor

CH6423 Chinese Materia Medica 3 4 credits

This course is part of a three-quarter series covering the Chinese materia medica. This third quarter focuses on herbs that tonify qi, tonify the blood, nourish the yin, tonify the yang, calm the spirit, expel wind, stabilize and bind, open the orifices, and expel parasites and substances for external application. Prerequisites: admission into MSAOM or CCHM program, CH6422 or permission of instructor

CH6431 Chinese Herbal Medicine Formulations 1

4 credits

This course is part of a two-quarter series covering the foundation formulas in Chinese herbal medicine. This first class focuses on formulas that release the exterior, quell fire, cool blood, drain downward, drain dampness, dispel wind damp, release food stagnation, clear heat and relieve toxicity, clear summer heat, transform phlegm, relieve cough/wheeze and regulate qi. Prerequisites: CH6421, CH6422 and CH6423

CH6432 Chinese Herbal Medicine Formulations 2

4 credits

This course is part of a two-quarter series covering the foundation formulas in Chinese herbal medicine. This second class focuses on formulas that promote the movement of qi, invigorate the blood, congeal blood and stop bleeding, warm the interior/expel cold, tonify the qi, tonify the blood, nourish yin, tonify yang, calm the spirit, expel wind, stabilize and bind, open orifices, expel parasites and external applications. Prerequisite: CH6431

Chinese Herbal Medicine Clinic 1-8

Students enrolled in the MSAOM or CCHM programs are eligible to take clinic shifts in Chinese herbal medicine, under the supervision of licensed acupuncturists. Students may take the CH6831 and CH6832 CHM Dispensary shifts at any time in the MSAOM or CCHM program. At a minimum, students must be enrolled in the Chinese Herbal Therapeutics course series in order to be eligible for CHM clinic intern status.

CH6803 CHM Clinic 1

2 credits

See description above. Prerequisites: CH6408 (may be concurrent) and admission into MSAOM or CCHM program

CH6804 CHM Clinic 2 2 credits

See description preceding CH6803. Prerequisite: CH6803

CH6805 CHM Clinic 3See description preceding CH6803. Prerequisite: CH6804

CH6806 CHM Clinic 4 2 credits

See description preceding CH6803. Prerequisite: CH6805

CH6807 CHM Clinic 5See description preceding CH6803. Prerequisite: CH6806

CH6808 CHM Clinic 6 2 creditsSee description preceding CH6803. Prerequisite: CH6807

CH6809 CHM Clinic 7 2 credits

See description preceding CH6803. Prerequisite: CH6808

CH6810 CHM Clinic 8

2 credits

See description preceding CH6803. Prerequisite: CH6809

Herbal Medicine Clinic in China 1-4

Students in good academic standing are encouraged to apply for advanced studies in China. Currently, Shanghai University of TCM and Sichuan Integrated Hospital of Eastern and Western Medicine are the main sites for Bastyr herbal clinical experiences. For more information and an application, see the AOM China Studies link on MyBU. The clinic in China is an eight (8) credit experience to be applied toward MSAOM or CCHM clinic requirements and/or elective credit. These credits may not be audited.

CH6821 Clinic in China 1

See description above. Prerequisite: permission of dean

CH6822 Clinic in China 2 2 credits
See description preceding OM6821. Prerequisite: permission of dean

2 credits

CH6823 Clinic in China 3 2 credits

See description preceding OM6821. Prerequisite: permission of dean

CH6824 Clinic in China 42 **credits**See description preceding OM6821. Prerequisite: permission

CHM Dispensary

of dean

Students are required to do two (2) CHM dispensary shifts in the clinic. The shifts can be taken at any time once a student has begun the herbal curriculum. It is recommended that students complete at least one dispensary shift prior to starting as a student herbal clinician.

CH6831 CHM Dispensary 1 2 credits

See description above. Prerequisite: admission into MSAOM or CCHM program

CH6832 CHM Dispensary 2 2 credits See description preceding CH6831. Prerequisite: admission into

MSAOM or CCHM program

CH6901, CH6902, CH6903 Independent Study variable credit
These courses provide an opportunity for students to study areas

These courses provide an opportunity for students to study areas of interest that are not included in the regular curriculum. With the aid of a selected resource person/sponsor, the student may explore a field of study in Chinese herbal medicine of personal interest and value. Prerequisite: permission of dean

Chinese Herbal Medicine Clinic 1-4 Elective

Students have the opportunity to take elective shifts in Chinese herbal medicine with approval of the dean.

CH9801 CHM Dispensary Elective

2 credits

See description above. Prerequisite: permission of dean

CH9802 CHM Elective Shift

2 credits

See description preceding CH9801. Prerequisite: permission of dean

DIETETIC INTERNSHIP

Debra Boutin, MS, RD, Internship Director

DI5100 Introduction to the Practice of Dietetics 1 credit This course serves as the program orientation and includes a discussion of professional ethics and standards of practice. Prerequisite: admission into internship program

DI5101 Community Nutrition

1 credit

This course includes a review of services provided by community and public health dietitians. Lectures and discussions focus on the unique concerns of community and public health nutrition. Evaluation is based on written assignments, participation in seminar discussion, final exam and activities. Prerequisite: admission into internship program

DI5103 Food Service Administration 1 credit

This course is a review of food service management through lectures and discussions of administrative problem-solving techniques and methods of management, cost control and quality assurance. Evaluation is based on participation in seminar discussion, activities and final exam. Prerequisite: admission into internship program

DI5104 Medical Nutrition Therapy 1 cred

This course prepares interns for their clinical/hospital-based rotation, emphasizing medical nutrition therapy including enteral and parenteral therapy. Information is presented through lectures, demonstrations, discussion and case studies. Evaluation is based on written assignments, clinical cases and final exam. Prerequisite: admission into internship program

DI5801 Community Practicum 2 credits

This course is the application of DI5101 through the execution of selected community nutrition planned experiences. Evaluation is based on successful completion of all learning activities. Prerequisite: admission into internship program

DI5814 Food Service Practicum 4 credits

This course is the application of DI5103 through food service planned experiences. Evaluation is based on successful completion of all learning activities. Prerequisite: admission into the internship program

DI5820 Medical Nutrition Therapy Practicum 5 credits This course is the application of DI5104 through clinical planned experiences. Evaluation is based on successful completion of all learning activities. Prerequisite: admission into internship program

EXERCISE SCIENCE AND WELLNESS

EX3101 Biomechanics 1

2 credits

This course is an introduction to the fundamental principles of human movement, focusing on the study and elementary analysis of human motion based on anatomical and mechanical principles. Prerequisites: BC3161, BC3162 and BC3163 (concurrent)

EX3105 Physical Activity and Wellness 2 credit

This course covers the general principles behind physical activity and how it relates to overall health and wellness. The course provides students with an introduction to the basic fundamentals of exercise and their application in leading a healthier and more physically active lifestyle through the entire lifespan. Prerequisite: none

EX4100 Physiology of Exercise

5 credits

This course explores concepts in the physiology of exercise, including fuel substrate utilization, metabolism, adaptations and responses to different exercise modalities. The class examines the (1) physiology of exercise, (2) physiology of health and fitness and (3) physiology of performance. This course is designed to complement the Exercise Physiology Lab, which emphasizes (1) the factors that limit health and fitness, (2) work tests used to evaluate cardiorespiratory fitness, (3) training methods for fitness, (4) body composition measures and (5) field and laboratory aerobic and anaerobic fitness tests. Prerequisites: BC3163 and BC4140 (or equivalent), CPR and first aid certification

EX4102 Biomechanics 2

3 credits

This course examines the anatomical and mechanical concepts required for critical assessment, description and qualitative analysis of human movement in a clinical context. Prerequisites: BC3113 and EX3101

EX4105 Business Principles in Health Promotion

2 credits

This course is designed to introduce nutrition and exercise science students to business principles within the health professions. The course facilitates a better understanding of the necessary market research involved in the process of developing health related strategic and business plans. Prerequisite: admission into BSN or BSX program

EX4107 Sports Nutrition 5 credits

This course examines the interaction between nutrition, physical activity and athletic performance. Topics focus on the efficacy of ingesting various macronutrients and bioactive compounds found in foods for enhancing certain types of athletic performance. Nutritional biochemistry of macronutrients and micronutrients including digestion, biological requirements, absorption and metabolism are emphasized. Prerequisite: BC4140 or permission of instructor

EX4112 Seminar in Ergogenic Aids 1 credit

This course is designed to allow students exposure to the various ergogenic aids currently on the market. This course requires students to research and present material on the advertised benefits of specific ergogenic aids, literature on the product and critical thinking around metabolic pathways of ingredients found within the products. Prerequisite: EX4107

EX4115 Motor Learning and Development 3 credits This course investigates principles of human movement and the acquisition of motor skills, as well as motor and perceptual development throughout the lifespan. Upon successful completion of the course, students are able to trace the path of human perceptual-motor development and to discuss the implications of general principles of motor development for the movement and sport specialist. Attention is given to learning theories, reinforcement, transfer, massed and distributed practice schedules, closed and open skills, motivation, feedback, arousal, motor control systems, and retention of motor skills. Prerequisite: none

EX4119 Principles of Resistance Training 3 credits
This course includes an introduction to principles and fundamentals of resistance training, including both a theoretical and practical, hands-on component. Students are expected to participate in the resistance training core activity while also covering the basics of muscle physiology, bioenergetics, biomechanics, training principles (modes and methods), training theory and practical considerations as they pertain to resistance training. Prerequisites: BC3113, BC3163, EX4115

EX4123 Exercise Prescription and Testing 5 credits This course explores the role of exercise in the assessment of functional capacity and in the diagnosis of coronary heart disease. Techniques of exercise stress testing are studied and practiced along with basic electrocardiography. Methods of quantifying energy cost of exercise and the development of exercise prescriptions are emphasized. This course contains a lab component for practical application of these concepts and development of these skills. Prerequisite: EX4100

EX4124 Exercise Science Laboratory Techniques

2 credits

This course offers students exposure and practical hands-on experience to laboratory techniques commonly used in exercise physiology labs and health and fitness settings. Prerequisite: EX4100

EX4133 Exercise Prescription for Special Populations 2 credits

This course is designed to expose students to various special populations, pathophysiology and the American College of Sports Medicine exercise recommendations for varying diseases states. Corequisite: EX4123

EX4140 Community Health Promotion 2 credits

This course is designed to allow students to explore the theories and concepts of health behavior change and the principles of public health and to provide students with a platform to create programs and practice disseminating health and wellness information to adults in community settings. Prerequisite: none

EX4800 Exercise and Nutrition Practicum This course provides the opportunity for students to develop practical experience in nutrition and exercise education through presentations and preceptorships. All practicum sites must be approved by instructor and practicum preceptor by March 15. This course may be taken in any quarter, except summer, during year two if student is in good academic standing. Prerequisite: none

EX4810 Internship for Exercise Science and Wellness 12 credits

This course provides students with practical knowledge in different areas of exercise science and wellness, including (1) physical therapy/sports medicine clinics, (2) hospital cardiac/pulmonary rehabilitation, (3) health and fitness facilities, (4) spa/retreat/wellness centers or (5) athletic training facilities. Students assume a leadership role and perform administrative tasks under an experienced agency supervisor and faculty sponsor. All internship sites must be approved by instructor and internship preceptor by March 15. Internship hours can begin in any quarter following junior year with approval of instructor, but may only be registered for during spring quarter of the senior year. See instructor for official policy guidelines. Prerequisite: a 2.0 or better in all designated courses or approval of exercise science program director. Student must be in good academic standing to pursue internship.

HOMEOPATHIC MEDICINE

Homeopathy 1-5

The homeopathic course sequence in natural therapeutics, Homeopathy 1-5 is required for all students in the naturopathic medicine program. Student clinicians may register for the Homeopathy Specialty Clinic at the time of their entry into the Bastyr Clinic if they have successfully completed Naturopathic Therapeutics-Homeopathy 3 or obtain the permission of the department chair. The courses beyond Homeopathy 5 are elective courses offered to naturopathic medical students interested in the further study of homeopathy and are nonsequential. Completion of Homeopathy 3 is strongly recommended and, in some cases, may be required by the department chair.

HO6305 Homeopathy 1

1.5 credits

This course is an introduction to the classical theory and practice of homeopathy. The principles, history and method of practice are explored, including the concept of the vital force, use of the repertory, study of homeopathic philosophy (including the concept of miasms), the difference between acute and chronic prescribing, homeopathic pharmacy and an introduction to homeopathic materia medica. The meaning of and the dangers of suppression in medicine are discussed. When possible, cases are used to elucidate concepts. Emphasis is placed on the integral relationship of homeopathy to naturopathic practice. Students learn the classic materia medica of at least 12 homeopathic remedies, including at least five poly-crest remedies. Prerequisite: admission into naturopathic medicine program or permission of dean or chair of program

2 credits HO6306 Homeopathy 2

This course further elucidates homeopathic philosophy, including the application of the vital force to homeopathic prescribing. Homeopathic materia medica, case taking, case analysis and repetorization, posology, and prescribing are emphasized. The concept of the first prescription is introduced, and the importance of Hering's Law is stressed. Students learn the difference between an acute and a chronic homeopathic case and explore the concept of miasms. Each week students receive cases to analyze and prepare for class discussion. Students are expected to develop classical in-depth knowledge of at least 10 homeopathic polycrest remedies and their important acute applications. Students acquire the basic skills of homeopathic case taking and case analysis and must take one homeopathic case outside of class. Prerequisite: HO6305 or permission of the dean or chair of program

HO6307 Homeopathy 3 2 credits

This course further emphasizes homeopathic philosophy, principles, case taking, case analysis and materia medica. The application of the vital force to homeopathic prescribing and the importance of Hering's Law continue to be emphasized. Students develop classical in-depth knowledge of at least 12 homeopathic polycrest remedies and further refine their homeopathic case taking, case analysis and repertory skills. The first return office call and the concept of miasmatic prescribing are introduced. Each week students prepare cases for class discussion. Students take at least one homeopathic case outside of class. Prerequisite: HO6306 or permission of the dean or chair of program

HO7300 Homeopathy 4 1.5 credits

This course emphasizes homeopathic materia medica as well as homeopathic case taking and case analysis. The first return office call is discussed in depth, including an analysis of the results of the first prescription. The importance of the vital force, Hering's Law, and the application of homeopathic principles in taking, analyzing and following a homeopathic case are emphasized. Each week students prepare cases for class discussion. Students take one homeopathic case outside of class. Materia medica is discussed as it pertains to the systems modules as it is applicable. Prerequisite: HO6307 or permission of dean or chair of program

HO7301 Homeopathy 5 1 credit

This class is the completion of the beginning-level skills needed to further the development of homeopathic practice. Homeopathic materia medica are expanded, and the concept of miasmatic prescribing is introduced. The student's case taking, case analysis and repertory skills are expanded. The return office call is emphasized. The importance of following the case, the timing of the homeopathic prescription and repetition of the homeopathic remedy are discussed. Each week students prepare cases for class discussion. Students take one homeopathic case outside of class. Homeopathy is discussed within the systems modules as applicable. Prerequisite: HO7300 or permission of dean or chair of program

Homeopathy 6-8

These three elective courses are offered to naturopathic medicine students interested in the further study of homeopathy after successfully completing Homeopathy 3 (HO6307).

HO9310 Homeopathy 6

3 credits This course continues the study of homeopathic materia medica. Cured cases are studied to illustrate points of case analysis; materia medica and the homeopathic theory of miasms are explored more deeply. Prerequisite: HO6307 or permission of department chair

HO9311 Homeopathy 7

3 credits

This course is a continuation in the advanced study of materia medica, case analysis and case management. Prerequisite: HO6307 or permission of department chair

HO9312 Homeopathy 8

3 credits

This course is a continuation of the advanced study of homeopathy. Homeopathic medicines are reviewed and analyzed via case study. Cases are presented by practicing homeopaths. Prerequisite: HO6307 or permission of department chair

Homeopathy Grand Rounds

Each student registered in the Homeopathy Specialty Clinic must also enroll in Homeopathy Grand Rounds. Cases seen in the Homeopathy Specialty Clinic are discussed in-depth with respect to case analysis, comparative materia medica and case management. Students who have completed HO6307 and want further knowledge of homeopathy but are not enrolled in the Homeopathy Specialty Clinic may enroll in Homeopathy Grand Rounds with permission from the department chair. If a student is registered for a Homeopathy shift, Homeopathy Grand Rounds cannot be audited.

HO9800 Homeopathy Grand Rounds 1 1 credit See description above. Prerequisite: none

HO9801 Homeopathy Grand Rounds 2 1 credit See description preceding HO9800. Prerequisite: none

HO9802 Homeopathy Grand Rounds 3 1 credit See description preceding HO9800. Prerequisite: none

HO9803 Homeopathy Grand Rounds 4 1 credit See description preceding HO9800. Prerequisite: none

1 credit HO9804 Homeopathy Grand Rounds 5 See description preceding HO9800. Prerequisite: none

Homeopathy Specialty Clinic

The Homeopathic Specialty shift allows students to apply classical homeopathic principles to patient care in a supervised clinical setting, including case taking, case analysis and prescribing, and case management. Students may take up to four homeopathy clinical shifts if space is available. Prerequisite: none

Homeopathy Specialty Clinic 1-4 Elective

Students particularly interested in homeopathy may take additional elective clinic shifts in the Homeopathy Specialty Clinic, with permission of the department chair, on a space-available basis.

HO9821 Patient Care 1 - Elective (Fall) See description above. Prerequisite: permission of department chair

HO9822 Patient Care 2 - Elective (Winter) 2 credits See description preceding HO9821. Prerequisite: permission of department chair

HO9823 Patient Care 3 - Elective (Spring) 2 credits See description preceding HO9821. Prerequisite: permission of department chair

H09824 Patient Care 4 - Elective (Summer) 2 credits See description preceding HO9821. Prerequisite: permission of department chair

INTERDISCIPLINARY STUDIFS

Timothy C. Callahan, PhD, Senior Vice President and Provost

IS3111 Interdisciplinary Experiences in Natural

Health Arts and Sciences 1 This course provides undergraduates with an opportunity to participate in workshops, seminars and other activities related

to health. Students work collaboratively across disciplines to build an integrated model of health. Communication and critical thinking skills are emphasized. Offered fall quarter. Prerequisite: admission into an undergraduate program at Bastyr University. This course is required for all undergraduate students.

IS9120 Introduction to Backpacking and Plant

Identification 2 credits

This class meets over two weekends. The first weekend meets in class. The second weekend is an overnight backpacking trip. Basic backpacking skills, including trip planning, gear selection, route finding/navigation, and backcountry rules and regulations are introduced. Basic plant identification skills and how to safely collect and use a limited number of medicinal plants in the backcountry are also covered. Prerequisites: none. This class is best suited to those with little or no backpacking experience/ plant identification training. If you have physical limitations that would prevent completion of an 8-12 mile backpacking trip, please contact the instructor directly. This class is offered every other year during the summer.

IS9130 The Physics and Biology of the Mind This course describes what we currently know (scientifically) about the nature of human consciousness. Data from physics, biology, neuroscience and medicine are presented and discussed. Prerequisite: none; however, this class is designed for medical students.

MIDWIFERY

Suzy Myers, LM, CPM, MPH, Department Chair

Please note: All but a select few of the midwifery courses are offered in a hybrid (online/onsite) format only.

MW3101 Midwifery Care 1: Introduction to the

Midwives Model of Care 3 credits This course includes an introduction to the guiding principles,

philosophy and values of the Midwives Model of Care, an introduction to cultural competency, and an overview of the midwife's role throughout the childbearing year. Basic principles of client education and health literacy are covered. The course also includes an introduction to the professional roles, responsibilities, and legal issues of midwifery, as well as national and local midwifery organizations. Prerequisite: none

MW3104 Introduction to Epidemiology for Midwives 3 credits

This course focuses on developing the skills needed to critically evaluate research relevant to midwifery care. Epidemiology for Midwives also introduces research methodologies and biostatistics and enables students to apply these concepts to evaluation of the efficacy and safety of midwifery and homebirth, the cost effectiveness of midwifery care, and the value of midwifery research. Additionally students begin the process of identifying their master's project. Prerequisite: none

MW3301 Well Woman Health and Assessment

4 credits

This course includes onsite presentations, discussions and skills practice, with the objective of developing the skills for taking a thorough client medical and social history and performing and charting a complete physical exam, including breast and pelvic exams. Prerequisite: enrollment in midwifery program

MW3311 Perinatal Nutrition 1: Pre-conception and **Prenatal** 2 credits

This course addresses nutritional needs during pregnancy, emphasizing how nutrition can assist in the management of common pregnancy-related issues, as well as building maternal and fetal nutrient stores. Students learn assessment, counseling and nutrition-related problem solving for the pregnant woman and her family. Prerequisite: enrollment in midwifery program

MW4100 Genetics and Embryology 2 credits

This course provides an introduction to human genetics, genetic disorders, and embryological and fetal development, both normal and abnormal, with an emphasis on teaching and supporting clients. Prerequisite: none

MW4101 Professional Issues Seminar: Cultural

Competency for Midwives 2 credits Students learn about the relevance of culture to perinatal health

care and investigate the impact and extent of health disparities as they affect maternal and infant outcomes in their own communities. Through the use of books, research articles, videos, interviews and guest speakers, students raise their level of cultural competence and develop client education materials for a specific cultural group in their community. Prerequisite: none

MW4102 Professional Issues Seminar: Modern

Midwifery, History, Politics and Activism 2 credits
A review of the history of medicine and midwifery through the
19th and 20th centuries, focusing on the social movements of
the 1960s and 70s that re-awakened the midwifery profession
in North America. The course also provides an interactive exploration of the current political climate in which direct-entry
midwifery is practiced in the U.S. and Canada, inter-professional
relationships and challenges faced. Prerequisite: none

MW4104 Professional Issues Seminar: Undoing

Racism 1 credit
This course provides a foundation for students to understand
racism, the way in which it adversely impacts individuals and
society, and its specific effects on health and health care. Areas of
exploration include power, privilege, social identity, prejudice as
well as structural theories of racism. Using a variety of resources
and activities, class members reflect on their own biases and
experiences; recognize and begin undoing internalized racial
oppression; and gain tools to begin undoing institutional
racism, thus becoming more effective health care providers.
Prerequisite: none

MW4105 Professional Issues Seminar: Midwifery Legal, Ethical and Professional Frameworks 2 credits

This course covers state and provincial midwifery laws, processes for legislative change, quality assurance, professional liability and ethics. The midwife's role and responsibilities regarding current state, provincial, national and international midwifery are also addressed. Particular emphasis is placed on developing the knowledge and skills necessary to make difficult decisions in today's complex professional and legal environment. Prerequisite: none

MW4302 Midwifery Care 2: Pregnancy and Prenatal Care 4 credits

Midwifery Care 2 includes the anatomy and physiology of normal pregnancy and an in-depth study of routine prenatal care procedures. It also includes assessment of each woman's individual needs and treatments for common discomforts and problems in pregnancy. Throughout Midwifery Care courses 2 - 7, students use case management exercises to practice critical thinking and risk assessment skills, apply precepts of evidence-based practice, and work toward acquiring skills as culturally competent providers and understanding of the midwife as a community health worker. Prerequisite: MW3101; concurrent enrollment in MW4320, MW4313

MW4303 Midwifery Care 3: Advanced Pregnancy and Prenatal Care 4 credits

This course includes information relevant to more complicated aspects of prenatal care: early pregnancy bleeding, management of the Rh-negative mother, anemia, infections, trauma, miscarriage, post-dates pregnancy, gestational diabetes and hypertensive disorders. Prerequisite: MW4302; concurrent enrollment in MW4322, MW4314

MW4305 Gynecology

3.5 credits

This course covers female reproductive anatomy and physiology from menarche through menopause and provides an introduction to women's health concerns, including sexuality, fertility, infertility, contraception, unwanted pregnancy, and the diagnosis and treatment of common gynecologic problems and reproductive tract infections. Prerequisite: none

MW4307 Breastfeeding and Lactation Education

2 credits

This course is designed to give student midwives the ability to educate women about the benefits of breastfeeding, to prepare clients to breastfeed, to understand the anatomy and physiology involved in breastfeeding, to assist clients with early breastfeeding, to help with common problems and to make appropriate referrals to other care providers for breastfeeding concerns beyond their expertise or scope of practice. Prerequisite: none

MW4310 Pharmacology and Treatments 1 1.5 credit This course includes foundational information about allopathic medications and immunizations relevant to midwifery practice and the midwife's professional and legal responsibilities around using medications. Prerequisite: none

MW4311 Pharmacology and Treatments 2 1.5 credit This course continues with an overview of certain complementary medicines such as homeopathy, Western herbs and traditional Chinese medicine, and their use and application in midwifery practice. Prerequisite: MW4300

MW4313 Counseling for the Childbearing Year 1

1 credi

This introductory course consists of information, role-playing and student presentations designed to develop basic skills needed for client counseling. Prerequisite: MW3301; concurrent enrollment in MW4302, MW4322

MW4314 Counseling for the Childbearing Year 2

1 credit

This course is a continuation of Counseling for the Childbearing Year 1, with discussion and skill building related to domestic violence, as well as resources and skills for counseling pregnant women dealing with substance abuse issues. Prerequisite: MW4313; concurrent enrollment in MW4303, MW4323

MW4320 Clinical Skills 1

1.5 credit

The Clinical Skills course is presented as a series of on-site skills labs and workshops, coordinated with Midwifery Care and Clinical Seminar course content. The objective of this course is to develop many of the skills, both hands-on and teaching, necessary to practice midwifery. Clinical Skills 1 builds on and amplifies some of the key skills first introduced in Well Woman Health and Assessment and covers aseptic technique, medication administration, pregnant abdominal exam, venipuncture, urinalysis and further practice in vital signs. Students are introduced to the fundamentals of being a birth assistant in addition to completing a full-day neonatal resuscitation program (NRP) certification as well. Prerequisite: MW3301; concurrent enrollment in MW4302, MW4313

MW4322 Clinical Skills 2

Continuation of the Clinical Skills series. Students practice client-informed choice skills related to perinatal care, as well as learn principles and skills related to intravenous therapy during intrapartum care, and review and practice injections and venipuncture. Prerequisite: MW4320; concurrent enrollment in MW4303, MW4314

MW4323 Clinical Skills 3

0.5 credit

1 credit

1 credit

Continuation of the Clinical Skills series. Students learn skills need for intrapartum care: perineal suturing, simulation of cervical exam, rupture of membranes, hand maneuvers for receiving the baby, estimating blood loss and treating postpartum hemorrhage. Prerequisite: MW4322; concurrent enrollment in MW5304, MW5313

MW4331 Clinical Seminar 1

Clinical Seminar is a seven-quarter series concurrent with practicum, focusing on the integration of theory and practice. As the course progresses quarter by quarter, both student expectations and complexity of case management skills increase. Clinical Seminar 1 learning activities focus on building basic skills in charting, phone triage, data collection, continuing education, basic management decisions, risk assessment and physician consultation and referral. Prerequisite: MW4302

MW4332 Clinical Seminar 2 1 credit

Continuation of Clinical Seminar series. This quarter further refines students' skills in charting, phone triage and risk assessment with emphasis on appropriate guidelines. Case questions and management problems increase in complexity to mirror student's clinical experience in practicum, continuation of case presentations and use of "virtual client" with phone triage exercises. Prerequisite: MW4331

MW4333 Clinical Seminar 3 1 credit

Continuation of Clinical Seminar series. In this course students are expected to have refined skills in charting, phone triage and communication with other medical professionals, developing understanding of and skill with more complex management decisions. Case questions and "virtual client" exercises require the student to demonstrate higher level problem-solving and critical thinking skills. Prerequisite: MW4332

MW4810 Midwifery Practicum

variable to maximum of 8.5 credits

Credits vary by quarter for a total of 8.5. Theoretical coursework is complemented by clinical rotations with practitioners providing midwifery and related women's health care. Must be co-enrolled in the Clinical Seminar series while in practicum except during the summer quarters. Prerequisite: eligibility for practicum as outlined in the Practicum Handbook

MW5100 Research Methods for Midwifery 3 credits
This course builds on the foundation and skills of Introduction
to Epidemiology for Midwives and facilitates skills needed for
the Master's Project series. Students gain understanding in and
apply appropriate research methods to their question of interest,
including skills in grant writing, institutional review board (IRB)
application and presentation of work. Prerequisite: MW3104

MW5101 Master's Project 1

0.5 credit

This course is part of a séries designed to build on the foundations of Introduction to Epidemiology for Midwives and to further develop the student's Master's Project. Topics may include refining the research hypothesis, data collection plan and application for human subjects review. Prerequisite: MW3104

MW5110 Master's Project 2

1.5 credits

Continuation of Master's Project series. Students will initiate work on project proposal under the guidance of Committee Chair. Prerequisite: MW5101

MW5111 Master's Project 3

2 credits

Continuation of Master's Project series. Students will continue work on project proposal, form a committee and submit proposal draft(s) to chair and committee for feedback.

Prerequisite: MW5110

MW5112 Master's Project 4

2 credits

Continuation of Master's Project series. Students will complete final proposal and pursue IRB approval if needed. Prerequisite: MW5111

$MW5114\ Professional\ Issues\ Seminar:\ Health\ Care$

Systems and Health Policy

2 credits

This course addresses issues in health care organization and financing. Students learn about formal health care systems in the U.S. and Canada as they relate to midwifery practice. In addition, health care policy and health care reforms are explored with an emphasis on how midwives can function as effective advocates for improved maternity care policy. Prerequisite: none

MW5304 Midwifery Care 4: Labor and Birth 6 credits A continuation of the Midwifery Care courses, this course includes an in-depth study of midwifery management of the normal processes of all stages of labor, birth and care of the mother and neonate in the immediate postpartum period, with an emphasis on preparing students for out-of-hospital birth practice. Prerequisite: MW4303, MW5315, MW4323

MW5308 Midwifery Care 5: Postpartum and Newborn Care 5 credits

This course addresses the roles and responsibilities of the midwife during the postpartum period. It includes a review of breastfeeding, maternal physiological changes and psychosocial adjustments, common newborn procedures, and select newborn problems. Prerequisite: MW5304; concurrent enrollment in MW5316, MW5324

MW5309 Midwifery Care 6: Challenges in Practice

5 credits

This course covers a variety of complications the midwife may encounter in clinical practice. Emphasis is on recognition, current thinking about prevention/treatment modalities, including medical as well as complementary and nutritional therapies. In addition to the role of physician consultation and referral, this course also addresses controversies within the midwifery community regarding where and how these clinical challenges should be handled. Prerequisite: MW5308

MW5315 Counseling for the Childbearing Year 3

1.5 credits

A continuation of the counseling courses, this course complements Midwifery Care 4 and includes information and skills for counseling, supporting, and effectively empowering woman through labor who have a history of reproductive loss, or who experienced reproductive loss and/or disappointment during pregnancy or birth. Prerequisite: MW4314; concurrent enrollment in MW4304, MW4323

MW5316 Counseling for the Childbearing Year 4:

Postpartum 1.5 credits

This section of the Counseling curriculum complements Midwifery Care 5 and includes information and skills needed to assess postpartum emotional adjustments and attachment difficulties and to provide early parenting support and intervention. Prerequisite: MW5315; concurrent enrollment in MW5308, MW5324

MW5324 Clinical Skills 4: 0.5 credit

Continuation of the Clinical Skills series. Students learn newborn exam techniques, newborn screening techniques, assessing and aiding with breastfeeding challenges, and informed choice and teaching appropriate to postpartum care. Prerequisite: MW4323; concurrent enrollment in MW5308, MW5316

MW5326 Clinical Skills 5 1 credit

Continuation of the Clinical Skills series. Using simulation models, students learn and practice emergency delivery skills including breech delivery, shoulder dystocia, cord prolapse and unexpected twin delivery. Prerequisite: MW5324; concurrent enrollment in MW5309

MW5334 Clinical Seminar 4 1 credit

Continuation of Clinical Seminar series. Students participate in a variety of clinical practice skills including a data collection project, "virtual client" exercises that continue to challenge students in making complex clinical management decisions, ongoing practice in charting and phone triage with emphasis on valid management decisions consistent with safe practice and midwifery standard of care, case presentations and complex case questions. Prerequisite: MW4333

MW5810 Midwifery Practicum

variable to maximum of 7.5 credits

Credits vary by quarter for a total of 7.5. Theoretical coursework is complemented by clinical rotations with practitioners providing midwifery and related women's health care. Must be co-enrolled in the Clinical Seminar series while in practicum except during the summer quarters. Prerequisite: MW4810

MW6110 Master's Project 5 2 credits

Continuation of Master's Project series. Students will initiate work on final project in consultation with committee. Prerequisite: MW5112

MW6111 Master's Project 6 2 credits

Master's Project series. Students will continue work on final project, submitting at least one draft to committee. Prerequisite: MW6110

MW6112 Master's Project 7

1 credit

Final in Master's Project series. Students will submit final project to committee for approval and prepare presentation to Bastyr community. Prerequisite: MW6111

MW6115 Professional Issues Seminar: The Business of Midwifery 2.5 credit

This course includes topics related to establishing a private midwifery practice, including a business plan and budget, and seeking employment opportunities in midwifery or a related field. The course also includes an update on current issues facing the profession of midwifery to prepare students for postgraduation activities. Prerequisite: none

MW6199 Master's Project Continuation 0 credits
Enrollment in this course is required when a student has not
yet completed the midwifery master's project but all program
master's project credits have been registered. One credit of
tuition is charged per quarter enrolled until completion of
project. Prerequisite: MW6107

MW6307 Midwifery Care 7: Synthesis and Application 2 credits

This course includes discussions and assignments designed to integrate and apply to clinical care the concepts of informed choice, evidence-based practice, and ethical, professional and legal issues, including consultation and referral systems. Students hone critical thinking and risk assessment skills, cultural sensitivity and an understanding of the midwife as a community health worker through case management exercises and panel discussions. Prerequisite: MW5309

MW6335 Clinical Seminar 5

1 credit

Continuation of Clinical Seminar series. In this course students continue with "virtual client" exercise and more complex case questions and presentations, fine-tuning management decisions and skills acquired in practicum focusing on the integration of theory and clinical practice. Prerequisite: MW5334

MW6336 Clinical Seminar 6

1 credit

1 credit

Continuation of Clinical Seminar series. In this course students continue with "virtual client" exercises reflecting the level of primary midwife under supervision. Students make presentations of their data collection project and continuing education topics. Prerequisite: MW6335

MW6337 Clinical Seminar 7

Continuation of Clinical Seminar series. In this quarter students are assessed for their readiness for entry-level practice, which will take into consideration the progression of their clinical problem-solving skills while caring for the fictional "virtual clients." Continuation of student presentations of data collection projects and continuing education topics. Prerequisite: MW6336

MW6810 Midwifery Practicum

variable to maximum of 33.5 credits

Credits vary by quarter for a total of 33.5. Theoretical coursework is complemented by clinical rotations with practitioners providing midwifery and related women's health care. Must be co-enrolled in the clinical seminar series while in practicum except during the summer quarters. Prerequisite: MW5810 MW6899 Midwifery Practicum Continuation 0 credit Enrollment in this course is required when a student has not yet completed the midwifery practicum requirement but all program practicum credits have been registered. One credit of tuition is charged per quarter enrolled until completion of project. Prerequisite: MW6810 (33.5 credits)

MW7901, MW7902, MW7903 Independent Study variable to maximum of 2 credits

This course provides an opportunity for students to study areas of interest in greater detail than is covered in the regular curriculum. With the aid of a selected resource person, the student may explore any topic within the area of childbirth. The student is responsible for submitting an independent study form to the program chair which includes learning objectives, evaluation method and timeline. Students may study more than one topic, using a separate course number for each topic. Two credits are required in the naturopathic midwifery program. Prerequisites: MW7321 and permission of department chair

Childbirth Practicum

Students intern with approved licensed or legal practitioners providing maternity care services. Students are required to actively participate in 25 births (12.5 credits of MW8800 or 1 credit/2 participations) and to manage 50 births (25 credits of MW8802 or 1 credit/2 managements). The following practicum courses are being taught out to the naturopathic midwifery certificate students. The Naturopathic Midwifery program was discontinued in June 2010.

MW8800 Birth Participations

variable to maximum of 12.5 credits

See description above. Prerequisite: MW7320

MW8802 Birth Managements

variable to maximum of 25 credits

See description preceding MW8800. Prerequisites: MW7320, MW7321

MW8901, MW8902, MW8903 Independent Study

variable to maximum of 2 credits

See description for MW7901, MW7902, MW7903. Prerequisites: MW7321 and permission of program chair

NATUROPATHIC MEDICINE

Iane Guiltinan, ND, Dean

NM5140 Constitutional Assessment 2 credits

An introduction to Naturopathic Therapeutics, in this module students learn constitutional assessment from different global perspectives, including Western humoral, traditional Chinese medicine, homeopathic miasm theory and ayurvedic traditions. Prerequisite: admission into naturopathic medicine program

NM5141 Naturopathic Theory and Practice 1 2 credits Naturopathic Practice modules cover topics that are integral to becoming a naturopathic physician, including naturopathic philosophy, history, business and professionalism. This first module introduces naturopathic philosophy and professionalism. Subsequent modules build on these skills. Prerequisite: admission into naturopathic medicine program

NM5142 Naturopathic Theory and Practice 2 2 credits This module continues concepts in naturopathic philosophy, history and professionalism. Students deepen their exploration of the naturopathic principles, the therapeutic order and the determinants of health. Students apply the naturopathic principles to the evaluation and management of clinical cases. Students also begin the application of these principles to their own lives, exploring what healing means to them personally. Prerequisite: NM5141

NM5143 Naturopathic Theory and Practice 3 2 credits This module addresses naturopathic philosophy, history and professionalism. Students broaden their outlook by examining current issues in public health. This includes different issues that are pertinent to different age groups, ethnicities, and societies in the United States and abroad. Students discuss/experience how naturopathic philosophy and practice can be used to improve the health and well-being of these various populations. Students also examine current political movements in public health and the role of naturopathic medicine in these emerging trends. Prerequisite: NM5142

NM5820 Clinic Observation 1

1 credit

This is the first quarter of the three-quarter clinical observation experience. The student develops familiarity with clinical operations and the roles of each person in the provision of care to patients. There is also an experiential aspect of the course as the student becomes a patient at Bastyr Center for Natural Health and in the Student Counseling Center on campus. Grade will be IP until spring quarter. Prerequisite: admission into naturopathic medicine program

NM6110 Naturopathic Theory and Practice 4 0.5 credit This module addresses naturopathic philosophy, history, professionalism and beginning concepts in business. The development of clinical skills builds on structure-function relationships that are covered in the Scientific Foundations modules that run concurrently with this module. Prerequisite: NM5143 or permission of the dean or chair of program

NM6111 Naturopathic Theory and Practice 5 0.5 credit This module addresses naturopathic philosophy and deepens concepts in business. Prerequisite: NM6110 or permission of the dean or chair of the program

NM6112 Naturopathic Theory and Practice 6 0.5 credit This module addresses naturopathic history and philosophy, professionalism and business. Concepts are integrated with naturopathic clinical diagnosis, therapeutic modules and scientific modules that run concurrently. Prerequisite: NM6111 or permission of the dean or chair of program

NM6310 Naturopathic Clinical Diagnosis 1 4 credits Students develop clinical diagnosis skills in this module, including discussing signs and symptoms, conducting and interpreting physical exams, and ordering and interpreting laboratory medicine and imaging data to formulate a differential diagnosis. Students also learn how to interview, synthesize and organize patient information into a standard and naturopathic medical history. Students address the hematologic, integumentary and musculoskeletal systems during this quarter. Prerequisites: completion of all first-year Scientific Foundations modules. Corequisites: BC6101, BC6102 or permission of the dean or chair of program

NM6311 Naturopathic Clinical Diagnosis 2 4 credits In this module, students develop clinical diagnosis skills, including discussing signs and symptoms, conducting and interpreting physical exams, and ordering and interpreting laboratory medicine and imaging data to formulate a differential diagnosis. Students learn skills in how to interview, synthesize and organize patient information into a standard and naturopathic medical history. During this quarter students address the cardiovascular, respiratory and gastrointestinal systems. Students participate in weekly break-out sessions that require application of clinical reasoning with scientific concepts to support a differential diagnosis. Corequisites: BC6103, BC6104 or permission of the dean or chair of program

NM6312 Naturopathic Clinical Diagnosis 3 4 credits In this module, students develop clinical diagnosis skills, including discussing signs and symptoms, conducting and interpreting physical exams, and ordering and interpreting laboratory medicine and imaging data to formulate a differential diagnosis. Students learn skills in how to interview, synthesize and organize patient information into a standard and naturopathic medical history. During this quarter students address the renal, male and female reproductive, endocrine and nervous systems. Students participate in weekly break-out sessions. Corequisites: BC6105, BC6106 or permission of the dean or chair of program

NM6315 Physical Exam Diagnosis Lab 1 1 credit In this lab students learn how to perform the basic elements of a physical exam on an adult patient. They learn how to recognize, describe and document abnormal findings. During this quarter they learn how to perform clinically relevant and focused physical exam skills of the head, neck, integumentary and musculoskeletal systems. Prerequisites: completion of all first-year Scientific Foundations modules and Naturopathic Practice modules 1 - 3

NM6316 Physical Exam Diagnosis Lab 2 1 credit In this lab students learn how to perform the basic elements of a physical exam on an adult patient. They learn how to recognize, describe and document abnormal findings. During this quarter they learn how to perform clinically relevant and focused physical exam skills of the cardiovascular, respiratory and gastrointestinal systems. Corequisite: NM6311 or permission of the dean or chair of program

NM6317 Physical Exam Diagnosis Lab 3 1 credit In this lab students learn how to perform the basic elements of a physical exam on adult, geriatric and pediatric patients. They learn how to recognize, describe and document abnormal findings. During this quarter they learn how to perform clinically relevant and focused physical exam skills of the male and female genitourinary, endocrine and nervous systems. Corequisite: NM6312 or permission of the dean or chair of program

NM6320 Clinical Diagnosis Lab 1 1 credit In this lab students develop laboratory medicine skills that include how to perform phlebotomy, standard spun hematocrits, erythrocyte sedimentation rates and other basic hematologic point of care tests. Corequisite: NM6310 or permission of dean or chair of program

NM6321 Clinical Diagnosis Lab 2 1 credit
In this lab students develop laboratory medicine skills related
to the cardiovascular, respiratory and gastrointestinal systems.
These skills include how to perform an ECG, peak expiratory
flow tests, spirometry, fecal occults blood test and other point
of care tests related to these systems. Corequisite: concurrent
NM6311 or permission of the dean or chair of program

NM6322 Clinical Diagnosis Lab 3 1 credit In this lab students develop laboratory medicine skills relate to the renal, male and female reproductive, endocrine and nervous systems. These skills include how to perform macro and micro urinalysis, semen analysis, vaginal wet mounts tests and other point of care tests related to these systems. Corequisite: NM6312 or permission of the dean or chair of program

NM6810 Clinic Observation 2

2 credits
Second-year observation is a year-long course totaling 44 hours
of clinical observation that requires students to begin more
active participation in the provision of patient care. Students
apply specific skills they have obtained in didactic training into
the patient care setting as a supportive member of the clinical
team. Students are evaluated throughout the year on basic
individual skills that are integral to a naturopathic physician.
Prerequisites: completion of first-year Scientific Foundation
modules and Naturopathic Practice modules 1-3

NM7110 Naturopathic Theory and Practice 7 1 credit This module addresses naturopathic history and philosophy, professionalism and business. History and philosophy concepts will be discussed in the context of the diagnostics and therapeutics in Advanced Naturopathic Practice 1. Prerequisite: NM6112 or permission of the dean or chair of program

NM7111 Naturopathic Theory and Practice 8 0.5 credit This module addresses naturopathic history and philosophy, professionalism and business. History and philosophy concepts are applied in the context of the diagnostics and therapeutics in Advanced Naturopathic Practice 2. Prerequisite: NM7110 or permission of the dean or chair of program

NM7112 Naturopathic Theory and Practice 9 1 credit This module addresses naturopathic history and philosophy, professionalism and business. History and philosophy concepts are applied in the context of the diagnostics and therapeutics in Advanced Naturopathic Practice 3. Prerequisite: NM7111 or permission of the dean or chair of program

NM7113 Naturopathic Practice 10 0.5 credit This module addresses naturopathic history and philosophy, professionalism and business. History and philosophy concepts are applied in the context of the diagnostics and therapeutics in Advanced Naturopathic Practice 4. Prerequisite: NM7112 or permission of the dean or chair of program

NM7142 Critical Evaluation of the Medical Literature

2 credits

In this course students further develop skills needed to locate, critically evaluate and translate biomedical evidence-based literature into clinical practice using core competencies learned in the Fundamentals of Research Design. The course allows students to better understand the treatments their patients receive and the new biomedical research relevant to their profession. Practical application of biomedical decision-making is emphasized, with students using their patient experiences to guide their clinically answerable questions on diagnosis and therapeutics. Prerequisite: BC5142

NM7310 Musculoskeletal System and Orthopedics

6 credits

This module includes a discussion of the evaluation and management process of rheumatologic, orthopedic, sports medicine and other musculoskeletal related conditions. Students learn how to use diagnostic imaging and other evaluation tools to determine a diagnosis. Students learn evidence-based practices of nutrition, botanical medicine and pharmacology as they are related to the musculoskeletal system and how to apply them. Students learn standards of care as they relate to the musculoskeletal system and orthopedics. Prerequisite: NM6312 or permission of the dean or chair of program

Naturopathic Medicine Modules

These modules are organized by systems and help students develop skills in deductive reasoning to solve clinical problems with a systematic approach. Students apply knowledge of medical history, physical exam, diagnostic testing strategies and test interpretation for common medical problems as they relate to each system. They also apply knowledge of evidence-informed naturopathic treatment strategies and pharmacology for these system-based medical problems. The treatment strategies of the naturopathic practice includes diet and nutrient therapy, botanical therapy, and physical therapy modalities as they relate to best practices and standards of care.

NM7318 Nervous System and Mental Health 5 credits This module includes a discussion of the evaluation and management process of the nervous system and common mental health related conditions. Students learn how to use diagnostic imaging and other evaluation tools to determine a diagnosis. Students learn evidence-based practices of nutrition, botanical medicine and pharmacology as they relate to the nervous system and common mental health conditions. Students learn standards of care as they relate to the nervous system and common mental health conditions. Prerequisite: NM6312 or permission of the dean or chair of program

NM7319 Endocrine System

5 credits

This module includes a discussion of the evaluation and management process of the endocrine system and other related conditions. Students learn how to use diagnostic imaging and other evaluation tools to determine a diagnosis. Students learn evidence-based practices of nutrition, botanical medicine and pharmacology as they are related to the endocrine system. Students learn standards of care as they relate to the endocrine system. Prerequisite: NM6312 or permission of the dean or chair of program

NM7321 Lifespan Considerations 3.5 credits

This module includes discussions of the evaluation and management process of medical concepts from normal maternity to pediatrics through geriatrics. Students learn evidence-based practices of nutrition, botanical medicine and pharmacology as they relate to the various stages of the lifespan and how to apply them. Students learn standards of care and basic public health concepts such as vaccinations. Prerequisite: NM6312 or permission of the dean or chair of program

NM7322 Digestive System

3.5 credits

This module includes a discussion of the evaluation and management process of the digestive system and other related conditions. Students learn how to use diagnostic imaging and other evaluation tools to determine a diagnosis. Students learn evidence-based practices of nutrition, botanical medicine and pharmacology as they are related to the digestive system and how to apply them. Students learn standards of care as they relate to the digestive system. Prerequisite: NM6312 or permission of the dean or chair of program

NM7323 Cardiovascular System 6.5 credits

This module includes a discussion of the evaluation and management process of the cardiovascular system and other related conditions. Methods of fitness testing, exercise prescription and the use of exercise as therapy are taught. Students learn how to use medical procedures, diagnostic imaging and other evaluation tools to determine a diagnosis. Students learn evidence-based practices of nutrition, botanical medicine and pharmacology as they relate to the cardiovascular system. Students learn standards of care as they relate to the cardiovascular system. Prerequisite: Naturopathic Clinical Diagnosis 3 or permission of the dean or chair of program

3 credits NM7324 Respiratory System

This module includes a discussion of the evaluation and management process of the respiratory system and other related conditions. Students learn how to use diagnostic imaging and other evaluation tools to determine a diagnosis. Students learn evidence-based practices of nutrition, botanical medicine and pharmacology as they are related to the respiratory system. Students learn standards of care as they relate to the respiratory system. Prerequisite: Naturopathic Clinical Diagnosis 3 or permission of the dean or chair of program

NM7326 Medical Procedures 1 2 credits

This module covers topics concurrent with topics in the cardiovascular system. Students practice IV therapies, CPR and other relevant techniques. Corequisite: NM7323 or permission of the dean or chair of program

NM7327 Environmental Medicine 1 credit Concepts of environmental medicine are threaded throughout

the Naturopathic Medicine systems modules. Prerequisite: NM6312 or permission of the dean or chair of program

NM7328 Female Reproductive and Urology This module includes a discussion of the evaluation and management process of the female reproductive, urologic system and other related conditions. Students learn how to use diagnostic imaging and other evaluation tools to determine a diagnosis. Students learn evidence-based practices of nutrition, botanical medicine and pharmacology as they are related to the female reproductive and urology systems. Students learn standards of care as they relate to these systems. Prerequisite: NM6312 or permission of the dean or chair of program

NM7329 Male Reproductive and Urology This module includes a discussion of the evaluation and management process of the male reproductive, urologic and other related conditions. Students learn how to use diagnostic imaging and other evaluation tools to determine a diagnosis. Students learn evidence-based practices of nutrition, botanical medicine and pharmacology as they are related to the male reproductive and urology systems. Students learn standards of care as they relate to these systems. Prerequisite: NM6312 or permission of the dean or chair of program

NM7331 Renal System 2.5 credits

This module includes a discussion of the evaluation and management process of the renal system and other related conditions. Students learn how to use diagnostic imaging and other evaluation tools to determine a diagnosis. Students learn evidence-based practices of nutrition, botanical medicine and pharmacology as they relate to the renal system. Students learn standards of care as they relate to the renal system. Prerequisite: NM6312 or permission of the dean or chair of program

Bastyr Center for Natural Health: Patient Care Shifts

Naturopathic medicine students are required to take 18 general patient care shifts or rotations. Each patient care shift/rotation involves provision of care under the supervision of licensed faculty. The medical skills mastered in this setting include all skills and therapeutics utilized in the provision of primary naturopathic medicine and are performed in the context of naturopathic principles. Each student is evaluated for increasing competence and specific skills as s/he progresses through the clinical education. See also listings for physical medicine Patient Care Shifts (PM7801, PM7802, PM8801 and PM8802). Prerequisite: none

NM7820 Patient Care 1 2 credits

See description above. Prerequisite: see above

NM7821 Patient Care 2 2 credits See description preceding NM7820. Prerequisite: NM7820

NM7822 Patient Care 3 2 credits See description preceding NM7820. Prerequisite: NM7821

NM7823 Patient Care 4 2 credits See description preceding NM7820. Prerequisite: NM7822

NM7824 Patient Care 5 2 credits See description preceding NM7820. Prerequisite: NM7823

NM7825 Patient Care 6 2 credits See description preceding NM7820. Prerequisite: NM7824

NM7826 Patient Care 7 2 credits See description preceding NM7820. Prerequisite: NM7825

NM7827 Patient Care 8 2 credits See description preceding NM7820. Prerequisite: NM7826

NM7828 Patient Care 9 2 credits See description preceding NM7820. Prerequisite: NM7827

NM7829 Patient Care 10 2 credits See description preceding NM7820. See NM8830-NM8836 for

Patient Care 11-17 descriptions. Prerequisite: NM7828

NM7901, NM7902, NM7903 Independent Study

variable credit

These courses provide an opportunity for students to study areas of interest that are not included in the regular curriculum. With the aid of a selected resource person/sponsor, the student may explore a field of study in naturopathic medicine of personal interest and value. Prerequisite: permission of the dean or associate dean

NM8100 Naturopathic Theory and Practice 11 This module addresses naturopathic history and philosophy, professionalism, and business. History and Philosophy concepts are applied in the context of the diagnostics and therapeutics in Advanced Naturopathic Practice 5. Prerequisite: NM7113

NM8105 Advanced Business Practices 1 This module builds on principles that have been introduced throughout the curriculum in Naturopathic Practice modules beginning in year two. Specific topics include business set-up, including all aspects of starting or joining a medical practice. Students create a business plan, learn the legal aspects of starting and running a business, and identify successful marketing strategies. Corequisite: NM8100 or permission of the dean or chair of program

NM8106 Advanced Business Practices 2 0.5 credit This module builds on principles that have been introduced throughout the curriculum in Naturopathic Practice modules. Specific topics include the financial skills of running and maintaining a business, including accounting, fee schedules and the legal aspects of working with an attorney. Prerequisite: NM8105 or permission of the dean or chair of program

NM8107 Advanced Business Practices 3 0.5 credit This module presents the final aspects of business management for a naturopathic physician. It includes the procedures and the business of managing local, state and federal taxes. It also addresses the administrative aspect of being a business owner or participant including employees, paperwork and chart management. Prerequisite: NM8106 or permission of the dean or chair of program

NM8304 Eyes, Ears, Nose and Throat
This module includes a discussion of the evaluation and management process of the eyes, ears, nose and throat (EENT). Students learn how to use diagnostic imaging and other evaluation tools to determine a diagnosis. Students learn evidence-based practices of nutrition, botanical medicine and pharmacology as they are related to EENT and how to apply them. Students learn standards of care as they relate to EENT. Prerequisite: NM6312 or permission of the dean or chair of program

NM8305 Integumentary System 3 credits

This module includes a discussion of the evaluation and management process of the integumentary system and other related conditions. This module also includes concepts, practical application and practice in minor surgery. Students learn how to use diagnostic procedures and other evaluation tools to determine a diagnosis. Students learn evidence-based practices of nutrition, botanical medicine and pharmacology as they are related to the integumentary system. Students learn standards of care as they relate to the integumentary system. Prerequisite: NM6312 or permission of the dean or chair of program

NM8310 Medical Procedures 2 2 credits Minor surgical procedures as defined by scope of practice for

naturopathic physicians and licensing laws are taught. This lecture course covers common minor surgery office procedures. Topics include suturing techniques; wound, infection and burn management; local anesthetics; bandaging techniques; and the recognition of conditions requiring medical referral for surgical intervention. Prerequisite: NM7326; corequisite: NM8304, NM8305 or permission of the dean or chair of program

NM8315 Advanced Topics in Diagnostic Imaging 2 credits
This module builds on an understanding of the various diagnostic
imaging technologies that were introduced in the Advanced
Naturopathic Practice Modules in year three. Students complete
their entry-level understanding of when and how to request
specific analyses and how to interpret the results. Prerequisites:
NM7310, all systems modules in the third year or permission of
the dean or chair of program

NM8316 Advanced Topics in Public Health 1 credit
This module incorporates discussions and application of the
principles of public health into clinical decision making necessary for the safe and knowledgeable practice of a naturopathic
primary care physician. Note that public health competencies are
also integrated into year three systems modules. Prerequisites:
NM7326, completion of all systems modules or permission of
the dean or chair of program

NM8317 Advanced Topics in Geriatric Medicine 2 credits
This module focuses on the skills necessary for a physician
practicing with this population with recognition of special needs
in assessment, diagnosis and treatment to support patients in
maintaining health and a healthy lifestyle throughout their life
and through death. Prerequisites: completion of all systems
modules or permission of the dean or chair of program

NM8318 Advanced Topics in Clinical Ecology 1 credit
This module continues the discussion of prevention, diagnosis
and treatment of allergies in all its forms. Cause and contribution
of food, plant, hydrocarbon and environment are presented.
Recognition of signs and symptoms of allergy with focus on
foundational treatment is included. Builds on concepts introduced in year-three modules. Corequisite: final year of program
or permission of the dean or chair of program

NM8319 Advanced Topics in Oncology

This module presents the role of the general practice naturopathic physician involved in the care of patients with cancer. It includes the problems involved in the diagnosis and assessment of cancer. Current knowledge of the causes and mechanisms of the disease are presented. There is an overview of the provision of ethical practices and the primary needs of cancer survivors as well as the role of complementary therapeutics including concepts from diet and nutrient therapy. Corequisite: final year of program or permission of the dean or chair of program

Preceptorship 1-3 and Advanced Preceptorship

Students have the opportunity to preceptor with physicians (ND, MD, DO) in practice. A preceptor/outreach coordinator assists students in locating appropriate preceptorship sites.

NM8801 Preceptorship 1 1 credit See description above. Prerequisite: admission into naturopathic medicine program

NM8802 Preceptorship 2 1 credit See description preceding NM8801. Prerequisite: NM8801

NM8803 Preceptorship 3 1 credit See description preceding NM8801. Prerequisite: NM8802

NM8815 Grand Rounds 1 1 credit

This module brings students together with experts in skills, knowledge or fields relevant to the practice of naturopathic medicine. This course is a series of presentations that bring depth to areas of medical knowledge or practice. Corequisite: final year of program or permission of the dean or chair of program

NM8816 Grand Rounds 2

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This module brings students together with experts in skills, knowledge or fields relevant to the practice of naturopathic medicine. This course is a series of presentations that bring depth to areas of medical knowledge or practice. Prerequisite: NM8815 or permission of the dean or chair of program

NM8817 Grand Rounds 3

1 credit

This module brings students together with experts in skills, knowledge or fields relevant to the practice of naturopathic medicine. This course is a series of presentations that bring depth to areas of medical knowledge or practice. Prerequisite: NM8816 or permission of the dean or chair of program

NM8830 Patient Care 11 2 credits See description preceding NM7820. Prerequisite: NM7829

NM8831 Patient Care 12 2 credits See description preceding NM7820. Prerequisite: NM8830

NM8832 Patient Care 13 2 credits See description preceding NM7820. Prerequisite: NM8831

NM8833 Patient Care 14 2 credits

See description preceding NM7820. Prerequisite: NM8832

NM8834 Patient Care 15

2 credits
See description preceding NM7820. Prerequisite: NM8833

NM8835 Patient Care 16 2 credits

See description preceding NM7820. Prerequisite: NM8834

NM8836 Patient Care 17 2 credits

See description preceding NM7820. Prerequisite: NM8835

NM 8837 Patient Care 18 2 credits

See description preceding NM7820. Prerequisite: NM8836

NM8844 Interim Patient Care 2 credits See description preceding NM7820. Prerequisite: NM7820

NM8901, NM8902, NM8903 Independent Study

variable credit

These courses provide an opportunity for students to study areas of interest that are not included in the regular curriculum. With the aid of a selected resource person/sponsor, the student may explore a field of study in naturopathic medicine of personal interest and value. Students may devote one (1) to five (5) of their elective credits to independent study. Prerequisite: permission of dean

NM9111 Fasting and Natural Medicine 1 credit Prerequisite: admission to naturopathic medicine program or permission of dean

NM9112 Traditional Naturopathic Medicine Series: Special Topics 2 credits

This course presents special topics in traditional medicine. Examples of topics include the healing reaction, natural hygiene and fasting, nature cure, the spiritual aspects of health and illness, and methods and techniques taught by traditionally trained naturopathic physicians. Cases are considered in lecture and discussion using this approach. Prerequisite: NM5113

NM9115 Traditional Naturopathic Medicine Series: Natural Hygiene, Principles, Research and Practice

2 credits

This course teaches and explores principles, research and practice of natural hygiene. The variable factors that determine health, health recovery and disease are integrated with current scientific research and today's practice of natural hygiene. Prerequisite: admission to the naturopathic medicine program or MS in nutrition program

NM9118 Energetics of Natural Medicine
This course presents an analysis of the vital force, the emergence of shape, a redefinition of disease and a discussion of specific disorders. The class is participatory, involving lecture, discussion and movement. Prerequisite: NM6224 or NM7116

NM9314 Advanced Gynecology and Practicum 2 credits This class includes advanced discussion in topics such as dysfunctional uterine bleeding, cervical cytology, chronic pelvic pain, recurrent vaginitis, breast disease, contraception management, osteoporosis and menopause. This class includes several case discussions. Included is a two-hour practicum each week to review and practice the gynecologic exam, breast exam and office procedures. The practicum also includes discussion, demonstration and practice of intrauterine device (IUD) insertions plus endometrial and vulvar biopsies. Prerequisites: NM7313

NM9316 Advanced Pediatrics 2 credits

This elective course focuses on clinical pearls and necessary knowledge for the naturopathic physician who will be working with children of all ages. Practical skills, such as vaccine administration, blood collection and exam skills are taught, as well as more advanced pediatric assessment techniques and treatment options. Prerequisites: NM7314, NM7315

NM9401 Diabetes, Insulin Resistance Syndrome 2 credits Naturopathic medicine has powerful tools to meet this challenge, and we will be asked to care for an increasing number of diabetic patients. Diabetic care often presents complex management problems. The goal of this course is to develop a deeper understanding of the principles of natural diabetic care and an ability to make a sound response to the diabetic challenge. Prerequisite: admission into Bastyr University

NM9402 AIDS and Alternative Medicine 1.5 credits
This course provides students with a foundation of information on HIV and AIDS necessary to meet the responsibilities of a naturopathic physician working with HIV/AIDS. Prerequisite: BC6209

NM9405 Traditional Naturopathic Medicine Series:

Principles of Clinical Fasting 1 credit

The purpose of this course is to familiarize students with the clinical application of fasting and management of fasting patients. Principles of natural hygiene, naturopathic philosophy and the therapeutic order are applied. Prerequisite: admission into naturopathic medicine program or permission of instructor

Patient Care Elective Shifts 1-4

Students may take Patient Care Shifts as elective credit by permission of clinic medical director

NM9801 Patient Care Elective (fall) 2 credits See description above. Prerequisite: permission of clinic medical director

NM9802 Patient Care Elective (winter) 2 credits See description preceding NM9801. Prerequisite: permission of clinic medical director

NM9803 Patient Care Elective (spring) 2 credits See description preceding NM9801. Prerequisite: permission of clinic medical director

NM9804 Patient Care Elective (summer) 2 credits See description preceding NM9801. Prerequisite: permission of clinic medical director

NM9811 Advanced Preceptorship 2 credits

Students have the opportunity to preceptor with physicians (ND, MD, DO) in practice, in lieu of a regular clinic shift. Advanced Preceptorships may also be taken for elective credit. Approval must be granted by the associate clinical dean for naturopathic medicine. Prerequisites: mid-level primary clinician status and completion of all preceptor rotations

NM9835 Building Clinical Skills 2 credits

Cross listed as NM7835. This course is part of an ongoing series that is formulated to build and enhance clinical skills. The course covers all aspects of the clinical encounter including the interview, physical exam, case analysis, and differential diagnosis, laboratory and imaging as diagnostic tools, and naturopathic case analysis. The course is a directed study with lecture and group discussion and sessions. The student completes case based assignments and brings the results to the group for analysis and discussion. Practice of personal skills outside of class is expected and is necessary for improvement to occur. Prerequisite: clinic eligibility

ACUPUNCTURE AND ORIENTAL MEDICINE

For a listing of the Chinese herbal medicine courses that are part of the MSAOM or CCHM programs, please see alphabetical listings beginning with CH.

A grade of C or higher is required to pass all AOM/CCHM courses. Please review grade point requirements for the MSA/MSAOM programs.

CPR for Health Care Providers

Prior to entrance into the clinic, all students in the MSA and MSAOM programs must complete a CPR course for health care professionals. This is a Bastyr Center for Natural Health requirement and is offered by the health and safety officer, health and safety department. Prerequisite: none

OM4101 History of Medicine 2 credits

This course is a survey of the history of medicine, including cross-cultural perspectives in healing. The course traces the history of medical practice from ayurveda, Hippocrates and Taoism to the development of drug therapy and allopathic medicine. Special attention is placed on issues of cultural diversity in medicine. Prerequisite: admission into AOM program

Meridians and Points 1-3

This series includes a comprehensive study of acupuncture meridians and points of the human body with reference to traditional Chinese locations. The traditional indications, precautions and physiological responses according to modern research are emphasized. The 12 regular meridian channels and eight extra meridian channels, 15 collaterals, 365 regular acupoints and extra points are discussed. Labs, lectures and illustrations are coordinated to provide students with hands-on skills and a thorough understanding of points and meridians.

OM4106 Meridians and Points 1 4 credits See description above. Prerequisite: admission into AOM program

OM4107 Meridians and Points 2 4 credits See description preceding OM4106. Prerequisite: OM4106

OM4108 Meridians and Points 3 4 credits See description preceding OM4106. Prerequisite: OM4107

OM4118 TCM Fundamentals 4 credits

This course covers the traditional theories fundamental to the practice of acupuncture and Oriental medicine. Students are introduced to the philosophy, theories of diagnosis and therapeutic concepts underlying traditional Chinese medicine. Prerequisite: admission into AOM program

TCM Diagnosis 1-2

In TCM Diagnosis 1 and 2 students begin the study, analysis, and understanding of the tongue and pulse. These courses focus on the understanding and practical skills of TCM diagnosis, applicable to both traditional Chinese herbology and acupuncture. Topics include differentiation of syndromes according to etiology, disease classification by symptom analysis, an in-depth study of the four diagnostic methods and the principles of treatment. Teaching aids, illustrations and case studies are utilized to facilitate learning.

OM4211 TCM Diagnosis 1 3 credits See description above. Prerequisites: OM4118/OM5120 and admission into AOM program

OM4212 TCM Diagnosis 2 3 credits See description preceding OM4211. Prerequisite: OM4211

TCM Pathology 1-2

TCM Pathology 1 and 2 focus on understanding of the TCM empirical model of pathophysiology of health disharmonies according to Zang Fu and channel theories. Through case presentations students learn to analyze the etiology, signs and symptoms, patterns that create disease, and treatment plans that facilitate homeostasis.

OM4221 TCM Pathology 1

3 credits

See description above. Prerequisites: OM4118/OM5120 and admission into AOM program

OM4222 TCM Pathology 2

3 credits

See description preceding OM4221. Prerequisite: OM4221

OM4315 TCM Bodywork: Tui Na

Tui na, a form of bodywork, is a therapeutic massage modal-

ity that originated in China. Based on the theories of TCM, tui na's effects can be utilized for acute conditions, as well as for constitutional disharmonies. In this course, students are introduced to various techniques, as well as fundamental principles for common therapeutic applications. Both practical and theoretical aspects are emphasized. Prerequisite: admission into AOM program

OM4406 Qi Gong

1 credit

Qi gong refers to the building, harnessing and proper directing of qi (energy.) Through proper exercise and instruction, students experience qi gong as a valuable resource for self healing and building energy. Prerequisite: admission into AOM program or permission of dean

TCM Techniques 1-3

This sequence of courses offers instruction in both the principles and hands-on skills of acupuncture techniques. Considerable emphasis is put on patient safety, competence in clean needle technique, material preparations and precautions. Technical training includes needling, moxibustion, cupping, electroacupuncture, Gwa Sha, plum blossom needle and physical stimulation of acupoints. A student must be enrolled in the MSA or MSAOM program in order to take these courses.

OM4411 TCM Techniques 1

2 credits

See description above. (For TCM Techniques 2-3, see OM5430 and OM5436.) Prerequisites: BC3134 (or BC5122 - ND Students), OM4106, OM4118; concurrent with BC3135 and OM4107

OM4800 AOM Clinic Entry

2 credits

This course covers clinic requirements, procedures and protocols, as well as clinic philosophy and standards of practice. Case management skills and charting skills prepare students for their clinic experience. Students attend case preview/review sessions where clinic cases are discussed. Special topics include confidentiality, special needs of different patient groups, dispensary, ethics and library support. Familiarity with Bastyr Center for Natural Health from the perspective of the patient and preparation for becoming a clinician are the key aspects of this course. Prerequisite: admission into AOM program

Clinical Observation 1-3

As part of the first stage in clinical training, students are placed at clinic as observers and perform under the supervision of faculty who are licensed acupuncturists. Training occurs at Bastyr Center for Natural Health as well as other community sites. Observation is designed to introduce and train the student in clinical protocol, patient care etiquette, and appropriate interactive skills with supervisors and student clinicians. Completion of the observation experience prepares students to further advance in the clinical training program.

OM4803 Clinical Observation 1 2 credits See description above. Prerequisite: OM4800

OM4804 Clinical Observation 2

2 credits

See description preceding OM4803. See OM5803 for Clinical Observation 3 description. Prerequisite: OM4803

OM4806 AOM Precentor Observation

2 credits The required preceptorship experience can be done while in observation status or completed during the student clinician phase. Students who choose to complete the preceptorship during the clinician phase are still eligible to start clinic in spring quarter of their second year, which is the traditional entry point into direct patient care. This observation experience is to be completed with a practicing professional either in or outside of Washington state. Prerequisite: OM4804 or permission of dean

OM4901, OM4902, OM4903 Independent Study

variable credit

These courses provide an opportunity for students to study areas of interest that are not included in the regular curriculum. With the aid of a selected resource person/sponsor, the student may explore a field of study in acupuncture and Oriental medicine of personal interest and value. Prerequisite: permission of dean

OM5121 Medical Chinese 1

Medical Chinese 1 provides basic training in the Chinese Romanization system (pin vin), which assists students in recognizing Chinese medical concepts in both written and oral form. This is the first course in a four-course series and is the only medical Chinese course required for MSA students. Prerequisite: admission into AOM program

OM5122 Medical Chinese 2

1 credit

Medical Chinese 2 introduces basic Chinese characters, including the use of radicals. Simple greetings are also covered. This is the second course in a four-course series. A portion of this class is online. Prerequisite: OM5121 or permission of the dean

OM5123 Medical Chinese 3

2 credits

Medical Chinese 3 focuses on introducing herbs with correct pronunciation and visual recognition of characters, introducing TCM clinical terminology, and developing verbal skills to include simple conversational Chinese. This is the third course in a fourcourse series. Prerequisite: OM5122 or permission of the dean

OM5124 Medical Chinese 4

2 credits

Medical Chinese 4 continues with the study of herbal pronunciation and visual recognition of characters, introducing additional TCM clinical terminology. The course also covers simple grammar and sentence structure and builds verbal skills with simple medical conversation. This is the final course in a four-course series. Prerequisite: OM5123 or permission of the dean

OM5300 Auricular Therapy

2 credits

This course introduces the basics of auricular therapy (ear acupuncture) and its use in diagnosis and treatment. Labs and lectures are included. Prerequisite: OM5436

OM5302 Public Health Issues in AOM 2 credits HIV/AIDS and chemical dependency are two major public health challenges for which the AOM profession has been instrumental in providing important ancillary care. This course provides an overview of differential diagnosis, treatment approaches and collaboration with other health care professionals in the treatment setting. The course blends Western medical theories with Oriental medicine in order to provide the student with a solid beginning foundation of clinical knowledge. Prerequisite: clinician status in AOM

Survey of Western Clinical Sciences 1-3

This three-course sequence emphasizes the systemic approach to Western pathology and the signs and symptoms that are clinically associated with disease in the various organ systems. Students learn basic physical exam skills from a Western clinical sciences perspective, including an overview to the fundamentals of laboratory test interpretation. Recognition of signs and symptoms as well as objective findings that would indicate the necessity for a referral are extremely important to contemporary acupuncture practice.

OM5321 Survey of Western Clinical Sciences 1

3 credits

See description above. Prerequisites: BC3136, BC4105 and admission into AOM program

OM5322 Survey of Western Clinical Sciences 2

3 credits

See description preceding OM5321. Prerequisite: OM5321

OM5324 Survey of Western Clinical Sciences 3 3 credits See description preceding OM5321. Prerequisite: OM5322

OM5405 TCM Whole Foods Nutrition 2 credits
Students learn through lecture, demonstration and practical
lab how to recognize and apply a wide variety of foods for
use in common patterns of pathology in TCM. Prerequisites:
OM5418, OM5419

Acupuncture Therapeutics 1-7

This sequence of seven (7) courses covers the systems of the body and the conditions and disorders that afflict the body's systems from a TCM perspective. Each course begins with a brief survey of Western biomedical information. Traditional approaches in acupuncture are covered to familiarize students with TCM therapeutics. There is an overall emphasis on classical applications as they relate to therapeutics.

OM5414 Acupuncture Therapeutics 1 2 credits See description above. This course provides an introduction to the seven (7) part sequence of Acupuncture Therapeutics. Also covered are the most common disorders seen in the clinical setting. Prerequisites: OM4212, OM4222

OM5415 Acupuncture Therapeutics 2 2 credits See description preceding OM5414. This course provides foundational training in musculoskeletal and dermatology conditions. Also covered are respiratory disorders. Prerequisite: OM5414

OM5416 Acupuncture Therapeutics 3 2 credits See description preceding OM5414. Acupuncture therapeutics for disorders of the gastrointestinal and hepatobiliary systems are covered in this course. Prerequisite: OM5414

OM5417 Acupuncture Therapeutics 4 2 credits See description preceding OM5414. Acupuncture therapeutics for the treatment of pediatric and gynecological disorders are covered in this course. Prerequisite: OM5414

OM5418 Acupuncture Therapeutics 5 2 credits See description preceding OM5414. Students learn to treat disorders of the cardiovascular system and common psychiatric disorders. Prerequisite: OM5414

OM5419 Acupuncture Therapeutics 6 2 credits See description preceding OM5414. (For Acupuncture Therapeutics 7, see OM6417.) This course covers the approach to and treatment of eye, ear, nose and throat conditions. Prerequisite: OM5414

OM5430 TCM Techniques 2

2 credits

See description preceding OM4411. This course continues with building basic needling skills and introducing moxibustion, Gwa Sha, and other non-needle modalities. Prerequisite: OM4411

OM5436 TCM Techniques 3

See description preceding OM4411. This course provides students with advanced acupuncture skills, supervised practice on difficult acupuncture points and the techniques of acupuncture microsystems. Prerequisite: OM5430

OM5438 TCM Techniques Lab

1 credit

This course provides additional instruction, review and practice opportunity for all material taught in the TCM Techniques 1-3 series. Prerequisite: 0M5436

OM5442 Tai Chi 1 credit

Tai chi is an important energetic system that utilizes specific movements and exercises designed to harmonize and build one's spirit and body. Prerequisite: admission into AOM program or permission of dean

OM5803 Clinical Observation 3 2 credits See description preceding OM4803. Prerequisite: OM4804

Student Clinician Shifts and Interim Clinic

Students progress through 14 MSA shifts or 16 MSAOM shifts, which start in the spring of their second year and continue through the remainder of the program. An increasing level of independence is expected of student clinicians as they approach graduation. This is assessed through supervisor evaluations and clinical competencies performed by the student clinician throughout their clinical experience. Prerequisite: passage of the AOM clinic entry exam

Note: To graduate, AOM students must complete 400 separate patient treatments on a minimum of 100 different patients completed over a minimum of one academic year. In order to satisfy the patient contact requirements, students may need additional clinic shifts beyond those required for graduation from the University.

OM5813 AOM Clinic 1 2 credits

See description above. Prerequisite: admission into MSA or MSAOM program, OM5803 and successful completion of Clinician Entry exam

OM5814 AOM Clinic 2 2 credits

See description preceding OM5813. Prerequisite: OM5813

OM5815 AOM Clinic 3 2 credits

See description preceding OM5813. Prerequisite: OM5814

OM5816 AOM Clinic 4 2 credits

See description preceding OM5813. Prerequisite: OM5815

OM5817 AOM Clinic 5

2 credits
See description preceding OM5813. Prerequisite: OM5816

OM5818 AOM Clinic 6 2 credits

See description preceding OM5813. See OM6827-OM6836 for AOM Clinic 7-16. Prerequisite: OM5817

OM5819 AOM Interim Clinic 1.5 credits See description preceding OM5813. Prerequisite: OM4800

OM5901, OM5902, OM5903 Independent study

variable credit

2 credits

These courses provide an opportunity for students to study areas of interest that are not included in the regular curriculum. With the aid of a selected resource person/sponsor, the student may explore a field of study in acupuncture and Oriental medicine of personal interest and value. Prerequisite: permission of dean

OM6105 Jurisprudence/Ethics 1 cred

Medical ethics and legal considerations are discussed in relationship to patient care and privacy issues. Prerequisite: OM6827

OM6110 TCM Medical Classics 2 credits

This course offers a survey of the historical evolution of TCM from its empirical beginnings within different schools to the most current practices. Prerequisite: admission into AOM program

OM6111 Practice Management 1

This is the first of a two-class series. The primary focus is assisting with the foundations of building a practice, including formulating and completing a business plan. Additional topics include office planning, bookkeeping, fee structures, taxes, accounting, marketing and communication skills. Prerequisite: OM5815

OM6112 Practice Management 2 1 credit

This is the second of a two-class series. This course focuses on additional practice building skills and requirements, including city and state licensing, marketing strategies, legal consent and privacy disclosures, practice options and referrals. Prerequisite: OM6111

OM6305 Survey of Biophysics and Electro-acupuncture 2 credits

This course presents an overview of the theories and research in the field of biophysics that impact the practice of electro-acupuncture. Principles and various applications of electro-acupuncture are presented, a variety of devices demonstrated, and hands-on experience encouraged. Prerequisite: OM5436

OM6310 Case Review 2 credits

This course runs concurrently with clinic and provides a forum for the discussion of cases seen in the teaching clinic. Prerequisite: OM5813

OM6315 Clinical Theatre 2 credits

This course provides an opportunity to observe experienced practitioners conducting patient interviews, constructing treatment plans and applying treatments. The course is designed to assist students with understanding various approaches to medical interviewing, patient care and management. Prerequisite: OM5813

OM6417 Acupuncture Therapeutics 7 2 credits See description preceding OM5414. Acupuncture therapeutics of renal and genitourinary systems, plus immune disorders including MS, CFIDS and fibromyalgia. Prerequisite: OM5414

OM6820 Clinic Entry for China 1 credit

Required for all students (master's and doctoral) who plan to study in China. This class is designed to prepare AOM students for their studies in Chengdu or Shanghai. Major topics include professional hospital conduct in the Chinese hospital, Chinese cultural topics, safety and practical travel tips. Prerequisite: prior approval for China study or permission of dean

Acupuncture Clinic in China 1-4

Students in good academic standing are encouraged to apply for advanced studies in China. Currently, Sichuan Integrated Hospital of Eastern and Western Medicine in Chengdu and Shanghai Universities of TCM are the main sites for Bastyr. For more information and an application, see the *Student Clinician Handbook*. The clinic in China is an eight (8) credit experience to be applied toward MSA or MSAOM program and/or elective credit. These credits may not be audited.

OM6821 Clinic in China 1 2 credits See description above. Prerequisite: permission of dean

OM6822 Clinic in China 2 2 credits See description preceding OM6821. Prerequisite: permission of dean

OM6823 Clinic in China 3See description preceding OM6821. Prerequisite: permission

of dean

OM6824 Clinic in China 4

2 credits

See description preceding OM6821. Prerequisite: permission of dean

OM6827 AOM Clinic 7 2 credits See description preceding OM5813. Prerequisite: OM5818

OM6828 AOM Clinic 8 2 credits See description preceding OM5813. Prerequisite: OM6827

OM6829 AOM Clinic 9 2 credits
See description preceding OM5813. Prerequisite: OM6828

See description preceding OM5813. Prerequisite: OM6828

OM6830 AOM Clinic 10 2 credits

See description preceding OM5813. Prerequisite: OM6829

OM6831 AOM Clinic 11 2 credits See description preceding OM5813. Prerequisite: OM6830

OM6832 AOM Clinic 12 2 credits See description preceding OM5813. Prerequisite: OM6831 OM6833 AOM Clinic 13 2 credits See description preceding OM5813. Prerequisite: OM6832

OM6834 AOM Clinic 14 2 credits See description preceding OM5813. Prerequisite: OM6833

OM6835 AOM Clinic 15 2 credits See description preceding OM5813. Prerequisite: OM6834

OM6836 AOM Clinic 16 2 credits

See description preceding OM5813. Prerequisite: OM6835

OM6901, OM6902, OM6903 Independent Study

variable credit

These courses provide an opportunity for students to study areas of interest that are not included in the regular curriculum. With the aid of a selected resource person/sponsor, the student may explore a field of study in acupuncture and Oriental medicine of personal interest and value. Prerequisite: permission of dean

AOM Department Electives: The following courses (course numbers starting with OM9—) represent a variety of electives and special topics courses offered on a rotating basis.

OM9101 Overview of TCM and Physics This course provides an overview of Western physics and the physiological mechanisms behind concepts of traditional Chi-

nese medicine. The course covers the framework behind the current Western scientific understanding of traditional Chinese medicine. Prerequisites: OM4108, OM4222

Oi Gong Elective Series

Courses are grouped into three units of three classes each. The first unit of classes must be completed before either units 2 or 3 can be taken.

Unit 1: Learning the Basics of Qi Gong

OM9111 Qi Gong: Internal Activation 1 credit This is the first class in a three-course series, introducing methods and techniques for direct, experiential understanding of the internal qi pathways of the Du and Ren meridians. The focus is on activating and cultivating one's own qi in accordance with corresponding yin/yang theory and TCM principles. Prerequisite: OM4406

OM9112 Oi Gong: Energizing the Zang Fu 1 credit This is the second in a three-course series, introducing methods for developing the Zang Fu related meridians. Students learn meridian cultivation exercises and gain an experiential understanding of the internal organs at the energetic level. Prerequisite: OM9111

OM9113 Qi Gong: Energizing the Extraordinary Meridians 1 credit

This is the third in a three-course series, introducing methods for developing the extraordinary pathways. Students gain an experiential understanding of the functions of the extraordinary energy pathways at the subtle energy level. Prerequisite: OM9112

Unit 2: Training for Teaching Qi Gong to Others

OM9121 Qi Gong: Development of Emotional

Well-Being Students learn internal organ energy activation and cultivation leading to an experiential understanding of the emotional functions of the organs and the development of emotional management. Prerequisite: OM9113

OM9122 Qi Gong: Internal Balance and Qi Cultivation

1 credit

Students learn advanced qi cultivation exercises including those affecting the central and autonomic nervous systems, including the Marrow Gate and the Brain Gate. Prerequisite: OM9121

OM9123 Oi Gong: Teaching Methods and Philosophy 1 credit Students learn methods and tools for conducting presentations and classes, including self-care practice and understanding of the trinity of students-teacher-universal energy. Prerequisite: OM9122

Unit 3: Therapeutic Application: Basics of Diagnostic **Methods and Techniques**

OM9131 Qi Gong: Diagnostics

The first of a three-course series. Methods covered include qi resonance, qi image perception and qi energy body communication. Prerequisite: OM9113

OM9132 Oi Gong: Therapeutic Approaches 1 credit This is the second of a three-course series. This course introduces the relationship between Qi Gong and five-element theory and the application of this knowledge in addressing health conditions. Students learn how natural changes within the body and the external environment affect health and quality of life. Prerequisite: OM9131

OM9133 Qi Gong: Philosophy and Ethics 1 credit This is the third of a three-course series. This course introduces the Qi Gong healing philosophy and the ethical code for providing Qi Gong treatments. Students learn appropriate self care before and after providing Oi Gong sessions. Prerequisite: OM9132

OM9135 Kung Fu 1

1 credit

Chinese kung fu is an ancient form of exercise. Unlike the current Qi Gong and tai chi courses, this class concentrates on developing muscular and cardiovascular fitness and well as teaching students concentration and the ability to focus qi. This is a nonsparring class. Its focus is to treat kung fu as an art form and means of maintaining one's health.

OM9140 Fundamental Principles of TCM This introductory course provides an overview to the theories and practice of acupuncture and Oriental medicine. Students are introduced to this ancient medicine in order to both better understand it and to recognize clinical situations that would benefit from referral to an acupuncturist. While this course is designed for students in the naturopathic medicine program, students enrolled in other degree programs are also eligible to take this course. Prerequisite: admission into Naturopathic Medicine program or any other non-AOM degree program

OM9201 TCM Diagnostics for NDs 3 credits

This course is designed to provide naturopathic students an opportunity to apply basic diagnostic principles of traditional Chinese medicine. Topics include TCM interviewing skills, pulse, tongue, meridian, palpation and case analysis. Beginning patient assessment skills are introduced. Prerequisites: OM4118, OM9140 or OM5120

OM9303 TCM Sports Medicine 1

1 credit

This course covers the theories, techniques and treatments of TCM sports medicine. The class focuses on introducing the treatments of six common joint injuries: mandible dislocation, luxation of biceps, long head tendon, acromioclavicular joint, sternoclavicular joint and radial capitulum. Prerequisite: BC3134

OM9306 Five Element 2 credits

This course provides an integrated approach to five-element diagnostic laws and theory. The course provides a bridge between TCM and five-element theory. Emphasis is given to developing diagnostic skills, interviewing and examining techniques. The student is guided to a new experience of seeing, hearing, feeling and smelling. Understanding all correspondences of lifestyle preference, personality, compensation for early traumas and emotional patterns, with a consciousness from within each element, is the goal of a series of experiential exercises. Prerequisite: OM4118

OM9309 Introduction to Foot Reflexology Massage

1 credit

This course introduces the theory and techniques of foot reflexology massage. Foot reflexology uses acupressure reflex points on the soles of the foot and lower leg to stimulate trigger points/meridians to treat disorders including PMS, stress and fatigue, headache, arthritis, insomnia, depression, digestive disorders, backache. History of reflexology, preparing herbal foot soaks, reflexology foot massage instruction/practice, and walks in Bastyr's reflexology path are also covered. Prerequisite: none

OM9313 Geriatric Care in AOM

2 credits

This course provides students with the clinical skills necessary to the specifics of geriatric clinical care. This includes intake and listening skills and specific considerations for the treatment of chronic versus acute conditions. Treatment protocols for common disorders are also covered. Prerequisite: OM5813

OM9314 TCM Sports Medicine 2 1 credit

This course covers the theories, techniques and treatments of TCM sports medicine. The class focuses on providing ancillary treatment for fractures of the ulna, radius (with subluxation of the radial capitulum), wrist joint, metacarpal thumb joint, hip joint, patella, fibular capitulum, ankle joint, fifth metatarsal bone, phalangeal joints of the toe and the ankle joint. Prerequisite: BC3134

OM9317 Thai Massage 1 1 credit

This course covers the theories and techniques of Thai massage. Classes focus on introducing the first five of the 10 Thai massage meridians and massage techniques and procedures on the feet, legs, neck and back. Prerequisite: BC3113 or BC3134 or BC5124

OM9318 Thai Massage 2

1 credit

This course covers the theories and techniques of Thai massage. Classes focus on introducing the last five of the 10 Thai massage meridians and massage techniques and procedures used on the face, abdomen, arms and fingers. Prerequisites: BC3134 or BC3113 or BC5124

Tui Na 2-5

Tui na is a therapeutic form of massage based on the principles of Chinese Medicine. The focused nature of tui na in terms of precise manual technique and focus on specific problem resolution make it an excellent clinical therapy. The tui na series provides students an opportunity to work on specific hand/finger techniques that make this massage form remarkably effective.

OM9322 Tui Na 2

1 credit

See description above. The tui na techniques covered in this course include: shaking, squeezing, striking, regulating, bending, splashing, scratching, sweeping, locking, swinging, gathering, separating and rotating techniques. Prerequisite: OM4315

OM9323 Tui Na 3

1 credit

See description preceding OM9322. The tui na techniques covered in this course include trembling, pinching, clenching, flicking, pressing, tapping, dry-clean hair movement, brushing, plucking, stepping and stretching techniques. Prerequisite: OM4315

OM9324 Tui Na 4

1 credit

See description preceding OM9322. There are many advanced tui na techniques that can enhance resolution of pain. This course gives students an opportunity to apply previously learned advanced tui na techniques with a variety of common clinical conditions including headache, TMJ, upper extremities, carpal tunnel syndrome, wrist pain, injury of lower extremities including the gastrocnemius muscle, ankle sprains and traumatic synovitis. Prerequisite: OM4315

OM9325 Tui Na 5

1 credit

See description preceding OM9322. There are many advanced tui na techniques that can enhance resolution of pain. This course gives students an opportunity to apply previously learned advanced tui na techniques with a variety of common clinical conditions including pain in the scapula, mid- and low-back areas, prolapsed disc conditions, injury to the superior cluneal nerve and trauma with the piriform muscle. External herbal applications also covered. Prerequisite: OM4315

OM9330 TCM Nutrition Lab 1

2 credits

This nutrition/cooking lab focuses on the application of Chinese herbs in Chinese cooking. Students shop for the menu of the day and learn how to choose good quality ingredients. The course covers the use of food and herbs in TCM as they relate to various diseases. One kind of soup and several dishes are made for lunch each session. Prerequisite: none

OM9400 Tai Chi 2

1 credit

This course offers further explorations with different styles and varieties of tai chi to further enhance health and well being (tai chi advanced). Prerequisite: OM5442 or permission of dean

OM9402 Oi Gong 2

The manipulation of one's energetic core is further explored and expanded as a valuable tool to use with patients in the health care setting. Prerequisite: OM4406 or permission of dean

OM9403 Tai Chi Sword

PM5314 Physical Medicine 1

PHYSICAL MEDICINE

Dean Neary, ND, Department Chair

1 credit This form, known as "Swimming Dragon," utilizes the classic weapon style from the Yang family tai chi chuan to stimulate the Yin energy. Course includes history of the form and yin/ yang foundation theory and presents the difference between the weapon form and the bare-hand form. Students learn the 37 classical movements. Prerequisite: OM5442 or permission of dean

OM9404 Tai Chi Saber This form, known as "Jumping Tiger," utilizes the classic weapon style from the Yang family tai chi chuan to stimulate the Yang energy. Course includes history of the form and yin/yang foundation theory and presents the difference between the weapon form and the bare-hand form. Students learn the 13 classical movements. Prerequisite: OM5442 or permission of dean

OM9420 Specialized Approaches in Acupuncture

Therapy: Acupuncture Detox Training This course provides an overview of the field of chemical dependency treatment and the role of acupuncture and includes an overview of the biochemistry of chemical dependency, outpatient treatment strategies for safely detoxifying and aftercare. This course is the didactic portion of a larger certification program offered by the National Acupuncture Detoxification Association (NADA). Upon completion of this course and an outside clinical rotation, students are eligible to work as acupuncturists in chemical dependency treatment facilities upon graduation/ licensure. Prerequisite: OM5813 or permission of dean

OM9569 Introduction to AOM Oncology 2 credits This is an introductory course to the field of oncology in AOM. This course covers both basic Western medical and TCM pathology, diagnosis and treatment for some of the common cancers, treatments for side effects from conventional therapies, and acupuncture and Chinese herbal medicine as complementary cancer care. Prerequisite: primary student clinician status in AOM programs

OM9570 Patent Formulas

2 credits

This course surveys commonly used, commercially available herbal preparations (patent medicines), which are often used as adjunctives therapies in TCM. Prerequisite: OM5405 or permission of dean

Clinical Elective 1-3

Students may take Clinical shifts as elective credit by permission of the dean.

OM9821 Clinical Elective 1 2 credits See description above. Prerequisite: permission of dean

OM9822 Clinical Elective 2

2 credits

See description preceding OM9821. Prerequisite: permission of dean

OM9823 Clinical Elective 3

2 credits See description preceding OM9821. Prerequisite: permission of dean

This module prepares the naturopathic medical student to understand and employ hydrotherapy techniques in the clinical setting. Lecture topics include history, philosophy, principles of nature cure, physiologic effects, as well as indication, contraindication and application of specific techniques. Concepts from environmental medicine are also introduced. Skills lab provides instruction and hands-on training in various general

constitutional hydrotherapy and colon hydrotherapy. Prerequisites: BC5151, SN5100 PM5314L Physical Medicine 1 Lab 0.5 credit

hydrotherapy applications and on special techniques such as

This skills lab provides instruction and hands-on training in various general hydrotherapy applications and on special techniques such as constitutional hydrotherapy and colon hydrotherapy. Prerequisite: Integrated Musculoskeletal module and Clinical Skills Lab 1. Corequisite: PM5315

PM5316 Physical Medicine 2

1 credit

2.5 credits

Prepares the naturopathic medical student to understand and employ electrotherapy techniques in the clinical setting. Lecture topics include history, philosophy, physiologic effects, as well as indication, contraindication and application of specific equipment/techniques. Prerequisite: PM5315

PM5316L Physical Medicine 2 Lab 0.5 credit Skills lab provides instruction and hands-on training using various electrotherapeutic devices such as ultrasound, diathermy, electrical stimulation (NMES), ultraviolet and infrared and low-level laser therapy (LLLT). Corequisite: PM5316

PM6305 Physical Medicine 3

2 credits

Students apply their knowledge/skills of observation, anatomical landmarks and palpation to assess the physical structure of a patient's body, and formulate an understanding of the biomechanical basis for movement. Students are instructed on clinical implications and application of therapeutic touch, as well as introduction to select myofascial release techniques. Prerequisite: PM5316

PM6306 Physical Medicine 4

3 credits

Indication, contraindication and application of soft-tissue manipulation techniques are covered in this course, specifically muscle energy technique (MET) for select muscles. Osseous manipulation technique (axial spine) is introduced. Prerequisite: PM6305 or permission of the dean or chair of program

PM6307 Physical Medicine 5 3.5 credits

Select imaging techniques and their relevance to assessment of conditions of the musculoskeletal system are covered. This course focuses on select techniques for osseous manipulation of the axial spine in uncomplicated cases. Prerequisite: PM6306 or permission of the dean or chair of program

PM7310 Physical Medicine 6 2.5 credits

This course focuses on select techniques for osseous manipulation of the axial spine in more complicated cases. This module continues development of select techniques for osseous manipulation of the axial spine in more complicated cases. Diagnosis and treatment of sports injuries commonly seen by a general practice naturopathic physician are covered. Methods of fitness testing, exercise description and the use of exercise as therapy are taught. Prerequisite: PM6307 or permission of the dean or chair of program

PM7311 Physical Medicine 7

2 credits

This course focuses on select techniques for osseous manipulation of the axial spine in more complicated cases. Prerequisite: PM7310 or permission of the dean or chair of program

Bastyr Center for Natural Health: Physical Medicine Shifts 1-4

Students are required to take four (4) physical medicine shifts during their clinical training. Each physical medicine shift involves faculty-supervised provision of naturopathic physical medicine. Massage, hydrotherapy, physiotherapy, soft tissue manipulation and naturopathic osseous manipulation therapies are the emphasized clinical skills. Students' competency in assessment skills and the application of physical medicine modalities are assessed through their supervisor evaluations. Additionally, students complete sequential clinical competencies throughout their physical medicine clinical experiences. Prerequisite: clinic eligibility

PM7801 Physical Medicine 1 (Patient Care 18) 2 credits See description above. Prerequisite: see above

PM7802 Physical Medicine 2 (Patient Care 19) 2 credits See description preceding PM7801. Prerequisite: PM7801

PM8801 Physical Medicine 3 (Patient Care 20) 2 credits See description preceding PM7801. Prerequisite: PM7802

PM8802 Physical Medicine 4 (Patient Care 21) 2 credits See description preceding PM7801. Prerequisite: PM8801

PM9300 Massage Intensive

credi

This course is cosponsored with the Bellevue Massage School Center For Healing Arts. Students interested in further information may meet with an advisor evaluator in the registrar's office or with a department program coordinator to discuss the availability of the program and prerequisite requirements. This course cannot be audited.

PM9301 Traditional Naturopathic Medicine Series:

Advanced Constitutional Hydrotherapy 1 2 credits Advanced clinical application of constitutional hydrotherapy. Topics include clinical pearls, clinical management of the healing reaction (or crisis), use of specific gravity, heart sounds, celiac plexus, adjunctive hydro and physiotherapy techniques and case studies. This course includes laboratory application. This course may be audited. Prerequisites: NM5131, PM5301, PM5305

PM9307 Abdomen 1 Visceral Manipulation 2 credits This is a beginning-level course, which covers the fundamentals of visceral manipulation as applied to the liver, gall bladder, stomach, duodenum, jejunoileum and the colon. The training is very precise and true to the body of work and research brought forth by both Dr. Barral and Alain Gehin. This course cannot be audited. Prerequisite: must be registered for at least one clinic shift

PM9310 Massage

1.5 credits

The intention of the class is to teach the student how to be comfortable when touching in a therapeutic setting. Through massage techniques, the student is taught how to palpate tissues to discover tissue changes and how to treat those changes. The class focuses on Swedish massage indications, contraindications and techniques, and introduces other soft-tissue assessment and treatment techniques. This course cannot be audited. Prerequisite: BC3113 or BC3134 or BC5122

Craniosacral Therapy 1-2

These courses are designed as an introduction to the theory and practice of craniosacral therapy. The theory is based on the physiological principle that the flow of fluid within the body is important in health and that structure and function are directly related to one another in health and disease. Methods for evaluation and treatment of the entire body are described, observed and practiced. The student learns a 10-step protocol for therapeutic application. This course cannot be audited.

PM9311 Craniosacral Therapy 1 3 credits See description above. This course cannot be audited. Prerequisites: BC5124 and PM5310 (for ND); PM5310 or PM9310 and BC3163 (for NTR, ExS, HS); BC3136 and PM5310 or PM9310 (for AOM)

PM9315 Craniosacral Therapy 2

3 credits

See description preceding PM9311. This course cannot be audited. Prerequisite: PM9311

COUNSELING AND HEALTH PSYCHOLOGY

Charles Smith, PhD, Department Chair

The prerequisite of "senior standing" means that the student has successfully completed a minimum of 45 credits in the Bastyr health psychology program.

PS3114 Developmental Psychology 4 credits

This course examines the stages of human psychological development and the corresponding tasks, issues and challenges inherent in each stage. Additionally, it examines learning styles across the life span and implications for adult learning. Concepts such as modeling, separation anxiety, moral reasoning and gender constancy are considered. The roots and patterns of attachment, early socialization, and sex and gender roles as part of psychosocial and moral development are explored in relation to theorists such as Piaget, Erikson, Bowlby and Kohlberg. Prerequisite: none

PS3123 Health Psychology 1 4 credits

This course serves as an introduction to the study of undergraduate health psychology at Bastyr University. The course provides students with opportunities to improve the skills needed for a successful experience at Bastyr. These include the ability to work cooperatively in small groups, the ability to find and use library resources in psychology and related modalities, the ability to critically read and think about research articles, and the ability to use American psychological writing and reference style. This course also introduces students to the biopsychosocial model of health and illness. Prerequisite: admission into the health psychology major

PS3124 Health Psychology 2 4 credits

This course continues the examination of the biopsychosocial model of health and illness. The impact of psychosocial variables such as social support and coping are covered, and students learn about methods for identifying and changing maladaptive health-related behaviors. The psychological and behavioral components of illnesses such as chronic pain, cancer and heart disease are examined. Prerequisite: PS3123

PS3126 Psychology of Personality 4 credits

This course offers an understanding and working knowledge of basic theories of personality, including those of Freud, Adler, Jung, Miller, Rogers, Maslow and Mahler. Assessment tools such as the MBTI, projective techniques such as the TAT and taxonomies of personality traits are examined. Students also critically explore coping patterns and mental health as a result of personality differences. The concept of self via humanistic psychology and social learning theory are contrasted with a psychodynamic approach to personality. Prerequisite: none

PS3127 Foundations of Counseling for Dietitians

3 credits

This course highlights how the building of a therapeutic relationship with a client is a basic foundation for the delivery of quality care by a dietitian. Particular strategies and interventions are highlighted that will likely prove beneficial for dietitians and clients establishing good rapport, collaborating for treatment goal setting and pursuing realistic behavior change. Opportunities for practice with these techniques are provided. Prerequisite: admission into DPD program or permission of instructor

PS3128 Psychology of Sports and Exercise 2 credits
This is an introduction to sports and exercise behaviors of both
individuals and groups. Topics include cognitive and behavioral
strategies, personality profiles, performance enhancement, motivation theory, and exercise initiation, adoption and maintenance
as they apply to various dimensions of physical performance.
This course may be taught using an online format. Prerequisite:
introductory psychology course

PS3129 Abnormal Psychology 4 credits

This course provides an overview and historical background of abnormal behavior, including present-day categories of abnormal behavior, symptomology, etiology and treatment. Historical perspectives related to the current conception of psychopathology as disease are the focus of this course. Subcategories of the pathology model are analyzed, as well as modern classification. Prerequisite: none

PS3131 Learning, Cognition and Behavior 4 credits
This course provides an introduction to historical and contemporary behavioral and cognitive theories and research about how we learn. Topics such as memory, thinking, problem solving, behavior acquisition and extinction, and reinforcement are explored. The course also explores the ways in which information is gathered from the external world, organized and stored

PS3133 Introduction to Statistics

in memory. Prerequisite: none

4 credits

In this course, statistical procedures are examined within the context of behavioral sciences. Statistical concepts such as probability, correlation and regression, analysis of variance, binomial and normal distributions, hypothesis testing and estimation are explored. Nonparametric statistics, application of binomial and normal distribution, chi-square tests and linear regression theory are addressed. Methods by which statistical concepts and formulas can be applied to the research of behavior are discussed. Experience with the Statistical Package for the Social Sciences (SPSS) is included. Prerequisite: none

PS3134 Research Methods in Psychology 4 credits
This course covers the basic scientific methods used in psychological research. Research issues such as formulating hypotheses and operational definitions, validity and reliability are introduced, and descriptive, correlation, experimental and quasi-experimental research designs are discussed. Prerequisite: admission into the health psychology major

PS3139 Spirituality and Health

3 credits

This course provides an introduction to the Spirituality and Health series by reviewing theoretical and historical perspectives and current thinking on the relationship between psychology, spirituality and health, and the separation of scientific medicine and spirituality. Ideas about spiritual healing and the nature of the soul in healing are explored. Students examine the place of humans in the natural world and consciousness research and use tools such as meditation that focus on the reintegration of mind, body and spirit. Prerequisite: none

PS3147 Myth, Ritual and Health 3 credits

The role of mythology in culture is examined, and the impact of ritual and initiation on health and human development is explored. Indigenous healing practices and modern healing approaches, as well as the role of illness as a transformative process, are examined. Prerequisite: none

PS3601 Psychology of Nourishment 3 credits

In this course, the student explores the personal and psychological components of nutrition and nourishment, including his/her relationship to food and eating, one's own sources of psychological nourishment and the impact of dietary changes on family dynamics. Students study the role of nourishment as it applies to developmental models. This course contrasts psychosocial stages of development with specific diets and food trends. Prerequisite: introductory psychology course

PS3615 Health and Oriental Medicine 3 credits This course explores the practice of Oriental medicine and its relationship to Western psychology. Special attention is given to the influences of qi gong, Taoist and five-element tradition. Psychological health is examined from an energetic perspective, congruent with Oriental medicine's philosophy of approaching emotional problems as a result of an imbalance. The five-element tradition is explored in the context of maintaining health and wellness and contrasted with traditional Western concepts of balance. Prerequisite: none

PS3901, PS3902, PS3903 Independent Study

variable credit

Independent study provides the student an opportunity to study an area of interest in psychology not included in the regular curriculum. Both the topic and the resource person must be approved by the psychology department chair. To begin independent study, the student must have completed 45 credits in psychology. Prerequisite: permission of department chair

PS4101 Social Psychology 4 credits

Using the perspective of social psychology, this course examines issues such as attitude change, interpersonal attraction and behavior, prejudice, attribution theory, aggression, conformity and inter/intragroup behavior, group process, leadership and social cognition. Prerequisite: none

PS4102 Ethical Issues in Psychology 3 credits This course provides an introduction to global ethical philosophies and professional ethics in psychology, including practical application of ethical principles as they relate to contemporary psychological and biomedical issues. Topics such as informed consent, professional boundaries, confidentiality, ethics in research and dual relationships are emphasized. Students learn principles of ethical decision making, including autonomy and beneficence. Theoretical concepts are applied to personal, professional and global issues through the use of case studies. Prerequisite: introductory psychology course

PS4106 Multicultural Psychology 3 credits

This course explores diversity and similarity among human beings. An emphasis is placed on students' exploring their own backgrounds and biases to become better equipped at understanding and fighting racism, sexism, and other inequities and bigotries. Topics such as treatment of diversity and diversity impact on health are a focus. Students are expected to contribute personal reactions and evidence attempts at personal growth in multicultural understanding. Prerequisite: none

PS4109 Human Sexuality 3 credits

This course is designed to provide an overview of human sexuality. Students increase their knowledge, comfort and personal insight in topics like sex research, sexual anatomy, gender roles, sexual orientation, sexually transmitted infections and sexuality education. This course examines sexuality from personal, historical and cultural perspectives. Prerequisite: none

PS4112 Creating Wellness

3 credits

This course explores wellness comprehensively, including study of its physical, mental, emotional, behavioral, social and spiritual dimensions. We address the shifting paradigm of medical models from technocratic to biopsychosocial to holistic and look at how this shift is affecting traditional areas of study. The focus of this course is on biological-psychological interactions and the mind-body connection — how we stay healthy, how we become resilient and how we create well-being. The emerging field of positive psychology is also discussed. Prerequisite: none

PS4113 Holistic Interventions in Addictions 2 credits
This course offers a comprehensive study of approaches to
treatment and case management, designed to offer an integrated
approach in dealing with individuals who struggle with addictions.
Modalities such as acupuncture, use of herbs and complementary
and alternative medical practices for treatment of addictions are
explored. Prerequisite: introductory psychology course

PS4117 Experimental Psychology

4 credits

This class focuses on the fundamentals of experimental design in psychology. Special attention is given to formulating hypotheses and operational definitions, data collection, analyses and interpretation. Students select, define and measure appropriate variables. Topics such as sensory and perceptual processes, attention and reaction time, as well as learning and memory, may be explored in the context of laboratory psychology. Prerequisites: PS3133, PS3134

PS4124 Biological Psychology 5 credits

This course provides a comprehensive introduction to the structure and functions of the human nervous system and investigates the biological basis of the senses, emotion and sleep. Topics such as hunger and thirst, sexual behavior, memory and language may also be explored. Prerequisite: none

PS4126 Research Proposal

2 credits

In this course students write the proposal for their senior research project. They review background literature, formulate hypotheses and operational definitions, and develop study procedures. Applications for Bastyr Institutional Ethics Review Board approval for empirical studies are also completed. Prerequisites: PS3133, PS3134

PS4128 Research Project

5 credits

The research project offers students the opportunity to explore a topic within the field of psychology and complete a literature review or empirical study on that topic under the direction of a psychology faculty member. Students present a hypothesis and methodology for testing and carry out a project. This course is equivalent to a senior thesis. Prerequisites: PS3133, PS3134, PS4117, PS4126

PS4129 Research Presentation 3 credits

The purpose of this course is to provide students with the opportunity to develop and deliver a conference-style presentation on the specific research topic they explored in PS4128. Prerequisite: PS4128

PS4149 Psychology and World Religions 5 credits
This course examines the central beliefs, traditions and practices
of the five major world religions (Christianity, Judaism, Islam, Buddhism and Hinduism) as well as a variety of additional religions.
The personal and cultural roles of religion as they relate to wellness
and health care are discussed. This course combines in class discussion with various experiential components. Prerequisite: none

PS4150 Healing: Self, Society and World 3 credits The final course in the Spirituality and Health series integrates information from the previous four courses and helps students extend their knowledge and skills toward community building, environmental and social change, and personal service. Prerequisites: PS3139, PS3147, PS4149

PS4501 SPSS Lab .5 credits

The SPSS lab course is designed for those undergraduate psychology students who have already completed an introduction to statistics course but lack training in the use of the Statistical Package for the Social Sciences (SPSS). The course introduces students to the fundamentals of creating data sets, labeling and manipulating variables, and testing hypotheses using various statistical commands in SPSS. Students gain hands-on experience with using SPSS on PC computers. This course is normally scheduled in the same quarter as Introduction to Statistics. Prerequisite: introductory statistics course

PS4610 Special Topics in Health Care3 credits
Contemporary issues in health care as they relate to psychology are explored in this seminar-style course. Topics such as the environment of the health care industry, complementary medicine, the biopsychosocial model of health care and holistic psychological interventions are examined. Prerequisite: none

PS4800 Practicum in Psychology variable credit
This course provides students with the opportunity for practical
experience in a variety of community settings related to psychology
and health. Practicum sites are arranged by the student and must
be approved by the instructor. A maximum of one practicum site
experience is allowed per quarter. One credit equals 33 hours of
practicum-related work over the course of an academic quarter.
Maximum of two credits per quarter. Prerequisite: satisfactory
completion of 30 credits in the BS in psychology program

PS4901, PS4902, PS4903 Independent Study

variable credit

Independent Study provides the student an opportunity to study an area of interest in health psychology not included in the regular curriculum. (An independent study cannot substitute for or be used to repeat a course offered in the prescribed curriculum.) It is the responsibility of the student to enlist a qualified resource person to guide the independent study. The counseling and health psychology department chair must approve both the topic and the resource person. To begin independent study, the student must have completed 45 credits in residence. Prerequisite: permission of department chair

PS5100 Psychological Foundations: Personality

4 credits

The course consists of an intensive study and comparison of major theories and perspectives on personality. Characteristic research is reviewed and methods of personality research and its ramifications for assessment and counseling practice are explored. Prerequisite: admission into MACP program

PS5101 Psychological Foundations: Life-Span Development

4 credits

This course examines the stages of human psychological development from conception to death and the corresponding tasks, issues and challenges inherent in each stage throughout a person's lifespan. The course examines theory in developmental psychology and its application to counseling practice. Prerequisite: admission into MACP program

PS5102 Biopsychosocial Approaches &

Complementary and Alternative Medicine 4 credits
This course examines the dynamic interaction of mind, body
and spirit and their application to counseling and mental health
practice. Particular attention is given to alternative theoretical
perspectives to allopathic medical models and the implications for understanding healthy human behavior as well as the
treatment of and response to problematic affective states and
problem behavior. Prerequisite: admission into MACP program

PS5104 Professional Orientation, Ethics & Law

Proseminar 4 credits
This course explores the ethical and legal issues relevant to the
practice of counseling and psychology, including confidentiality,
ethical competence, privilege and multiple relationships. Ethical
issues concerning private practice, licensing, certification and
forensics are covered. Principles of ethical decision making
are given specific attention. This course provides students with
a broad overview of mental health and is intended to serve as
an orientation to professional practice. Prerequisite: admission
into MACP program

PS5105 Psychological Foundations: Multiculturalism, Diversity & Social Justice 4 credits

This course addresses multicultural issues in the practice of psychology through investigating the fundamental levels of awareness, knowledge and skills necessary to competently serve diverse populations. The multiple dimensions of identity, including race, ethnicity, religion, socioeconomic status, gender, disability and sexual orientation are explored in the context of development, assessment and interventions. Prerequisite: admission into MACP program

PS5106 Statistics 4 credits

In this course, statistical procedures such as probability, correlation and regression, analysis of variance, binomial and normal distributions, hypothesis nesting and estimation are examined within the context of the behavioral sciences. The course covers the application of descriptive and inferential statistics in research and measurement. Prerequisite: admission into MACP program

PS5108 Introduction to Health Psychology 3 credits

A comprehensive introduction to the theory and practice of health psychology examining the application of psychological theory and research to specific health issues. The strategies of health promotion and disease prevention, as well as the management of chronic and terminal illness, are examined. The course reviews relevant research and consider the implications for counseling practice. Prerequisite: admission into MACP program

PS5109 Fundamentals of Counseling 3 credits

This course provides an introduction to the fundamental interviewing and counseling skills in light of the principles of naturopathic medicine. The course covers multiple specific skills applicable across theoretical orientations, including use of questions, encouragement, paraphrasing, summarizing, confrontation, reflection of feeling, focusing, directives and others. Special attention is given to risk assessment in clinical practice. The course is supplemented with a weekly practicum lab in which students develop basic counseling skills. Prerequisite: PS5121

PS5110 Fundamentals of Counseling: Group Dynamics 3 credits

This course introduces students to the basic principles of group psychotherapy and includes both an experiential and didactic component. Theories of group development and research issues are also reviewed. Prerequisite: PS5301 or permission of instructor

PS5113 Theories of Counseling and Psychotherapy

3 credits

This course covers the major theoretical approaches to counseling and psychotherapy, including psychoanalysis, cognitive-behavioral therapy, client-centered, gestalt and solution-focused. Case studies, role-plays, student-led discussion groups and videos supplement readings and lecture. Prerequisite: PS5301

PS5115 Fundamentals of Counseling: Systems,

Families and Couples 4 credits

This course covers an overview of the development of the field of family therapy and an introduction to the theory and practice of the major "schools." Additional issues to be covered include medical family therapy, critiques of the major models, and culturally sensitive assessment and treatment with diverse families. Case studies, role-playing and videos supplement readings and lecture. Prerequisite: admission into MSN/CHP program or permission of instructor

PS5120 Therapeutic Alliance 1 1 credit

This course covers introductory theory and skills focused on the cultivation of the therapeutic relationship, including effective counselor qualities; the common factors that facilitate psychological well-being, and the development of attending behaviors in clinical practice. Specific attention is placed on applying these clinical skills across cultural differences, including developing an awareness of one's own unique strengths and biases. Critical ethical issues related to professional practice are explored. Concepts are integrated with naturopathic history, philosophy and professionalism. Lectures are taught in a hybrid-online format. Prerequisite: admission into naturopathic medicine program

PS5121 Therapeutic Alliance 2

1 credit

This course continues to develop knowledge and understanding in introductory theory and skills focused on the cultivation of the therapeutic relationship, including effective counselor qualities, the common factors that facilitate psychological well-being, and the development of attending behaviors in clinical practice. Specific attention is placed on applying these clinical skills across cultural differences, including developing an awareness of one's own unique strengths and biases. Critical ethical issues related to professional practice are explored. Concepts are integrated with naturopathic history, philosophy and professionalism. Lectures are taught in a hybrid-online format. Prerequisite: PS5120.

PS5202 Psychopathology and Biomedical Conditions

3 credits

This is a course in psychopathology that focuses on refining diagnostic skills and reviewing current empirical and theoretical literature on the biopsychosocial etiology of mental disorders. A special emphasis is placed on comorbid psychopathologies related to acute and chronic biomedical conditions such as pain syndromes, gastrointestinal disorders, spinal cord injury, cardiovascular disease, cancer, stroke, HIV and AIDS, and Alzheimer's disease. Prerequisite: admission into graduate studies and concurrent enrollment in PS6315 for MSN/CHP only

PS5205 Patient Communications 3 credits

This course covers the fundamentals of counseling, including essential counselor characteristics, basic communication and interview skills, the establishment of a therapeutic/wellness alliance, proficiency in stimulating health and nourishment, and suicide assessment and referral. Prerequisite: student clinician status or permission of the dean

PS5206 Psychological Foundations: Psychopathology 4 credits

This course examines the classification, diagnosis and associated symptomatology, etiology and treatment of mental disorders. Alternative models and various historical perspectives for understanding abnormal behavior are covered. Students learn to effectively apply and critique the Diagnostic and Statistical Manual of the American Psychiatric Association. Prerequisite: admission into MACP program

PS5301 Fundamentals of Counseling: Basic Skills

3 credits

This course covers the fundamentals of counseling, including essential counselor characteristics, basic communication and interview skills, the establishment of a therapeutic/wellness alliance, proficiency in stimulating health and nourishment, and suicide assessment and referral. The theory and research in common factor models of psychotherapy are emphasized. Prerequisite: admission into graduate studies

PS5302 Counseling Theory and Practice 4 credits

This course is a comprehensive overview of the major theoretical approaches to counseling and psychotherapy. The fundamental counseling techniques, including essential counselor characteristics, basic communication and interview skills, and the establishment of a therapeutic/wellness alliance, are examined. Prerequisite: admission into MACP program

PS5802 Clinic Entry

1 credit

This class covers clinical requirements, procedures and policies, including both clinic-wide and counseling shift issues. Focus is on topics such as Team Care philosophy, CPR, medical documentation and HIPPA training. Prerequisites: PS5104, PS5105, PS5206 and PS5302

PS5901, PS5902, PS5903 Independent Study

variable credit

Independent study provides the student an opportunity to study an area of interest in health psychology not included in the regular curriculum. (An independent study cannot substitute for or be used to repeat a course offered in the prescribed curriculum.) It is the responsibility of the student to enlist a qualified resource person to guide the independent study. The counseling and health psychology department chair must approve both the topic and the resource person. Prerequisite: permission of department chair

PS6100 Motivational Interviewing 2 credits

This is an advanced interviewing course designed to help students further develop their therapeutic skills at motivating clients for treatment and increasing treatment compliance. Students practice motivational interviewing in class. Prerequisites: admission into graduate studies or permission of chair

PS6102 Research Methods and Program Evaluation 4 credits

This course reviews the basic statistical procedures, psychometric principles and methods employed in psychological research. Research design methodology is also covered, including hypothesis formulation and experimental and quasi-experimental design. In addition to test construction, the course covers the use of needs assessment and other evaluation methods for determining the effectiveness of programs. Prerequisites: Admission into MACP program and PS5106

PS6105 Diversity and Multicultural Issues in Health **Psychology**

This course addresses multicultural issues in the practice of psychology through investigating the fundamental levels of awareness, knowledge and skills necessary to competently serve diverse populations. The multiple dimensions of identity, including race, ethnicity, religion, socioeconomic status, gender, disability and sexual orientation, are explored in the context of development, assessment and interventions. Prerequisite: admission into graduate studies or permission of instructor

PS6112 Family Systems

4 credits

This course provides a comprehensive overview of the theory and practice of the major approaches to family therapy. Additional issues to be covered include medical family therapy, critiques of the major models, and culturally sensitive assessment and treatment with diverse families. Case studies, role plays and videos supplement readings and lectures. Prerequisite: admission into MACP program

PS6115 Human Sexuality

3 credits

This course examines the role of sexuality in human functioning throughout the lifespan. It also covers contemporary cultural/ psychosexual development and its impact on psychological health, sexual dysfunction and treatment, sexual abuse, and sexuality and spirituality. The biopsychosocial model of human sexuality is explored. Prerequisite: admission into MACP program

PS6130 Psychological Testing

This course covers general principles of assessment and basic psychometrics and emphasizes basic research and interpretation skills for common personality, behavior and cognitive/ intellectual assessments. Prerequisites: PS5202, PS5301, PS6315

PS6202 Psychological Assessment

This course trains students to make clinical assessments of patients' psychological well-being using the Diagnostic and Statistical Manual of Mental Disorders (DSM) and, accordingly, to make judgments regarding appropriateness of treatment both within the University's clinic and the practice of naturopathy. Referral resources and procedures are discussed. Special emphasis is given to the recognition and impact of mental disorders in primary care. Lectures are taught in a hybrid-online format. Prerequisite: PS6302 or permission of the dean or chair of program

PS6204 Substance/Chemical Addictions 4 credits This course provides a comprehensive overview of the assessment, diagnosis and treatment of alcohol and substance abuse disorders. The course examines the etiology and symptomatology of these addictive disorders and emphasize counseling intervention models. Behavioral addictions are also addressed. Prerequisite: admission into MACP program

PS6207 Counseling for Eating Disorders 2 credits This course studies the entire spectrum of disordered eating, including anorexia, bulimia and restricted eating. Course emphasis is on the psychological, social and behavioral patterns of restrictive eating and the counseling issues, techniques and interventions that interrupt these and lead toward individual and family health and healing. This course includes a counseling lab. Prerequisites: PS5205 (AOM) or PS5210 (NTR) or PS7203 (ND) or PS5113, PS5115, PS5301(MSN/CHP)

PS6301 Counseling Theories & Interventions 1 3 credits This course focuses on developing skills related to conducting a clinical interview within the counseling context; the ability to conceptualize a clinical mental health case; and skills necessary for clinical treatment and intervention. Empirically supported counseling interventions are given specific attention, as is the biopsychosocial framework, the therapeutic stages of change, cognitive behavioral therapies and mindfulness-based therapies. The course is supplemented with a weekly practicum lab to facilitate experiential learning. Lectures are taught in a hybrid-online format. Prerequisite: PS5109 or permission of the dean or chair of program

PS6302 Counseling Theories & Interventions 2 2 credits
This course continues the development of student competency
in mental health case conceptualization, treatment planning,
and intervention by examining empirically supported practices
in health psychology and behavioral medicine. Areas explored
include assessing and promoting patient motivation and change,
interventions grounded in mind-body medicine, and mental
health consultation and referrals. The course focuses on the
psychological aspects of counseling especially relevant within
the practice of medicine, including treatment of psychological
conditions secondary to medical problems. Lectures are taught
in a hybrid-online format. Prerequisite: PS6301 or permission
of the dean or chair of program

PS6310 Nutrition and Pharmacology in Mental Health 3 credits

This course is designed to study nutritional and pharmacological imbalances in mental health disorders and the relationship between nutrition, brain biochemistry and mental health. Nutritional and psychotropic interventions and their efficacy for mental health disorders are also examined. Prerequisites: BC5118, BC5132, and PS5202 or permission of instructor

PS6312 Counseling Chronic and Terminal Illness

3 credits

This course covers the assessment and intervention skills found to be effective in counseling persons with chronic pain, chronic illness or a terminal prognosis. Specific focus is on how to offer effective assistance for the emotional, social, behavioral and cognitive aspects of an ongoing pain problem and/or chronic/terminal illness. Prerequisite: admission into MACP program

PS6315 Counseling Adults 1: Assessment and Treatment 3 credits

This course utilizes a biopsychosocial counseling approach for assessment and treatment of adults with mental disorders and chronic illness. Students learn intake interviewing and basic counseling skills within a health psychology foundation, in preparation for their first clinic shift. The course also focuses on principles and processes for health behavior change. Key theoretical approaches and their clinical application are covered. Prerequisite: concurrent enrollment in PS5202 or permission of instructor

PS6317 Counseling Adults 2: Assessment and

Treatment 3 credits

This advanced counseling course utilizes a biopsychosocial counseling and integrative approach for the assessment and treatment of adults with mental disorders and terminal illness. A primary focus is on counseling for grief and loss and includes techniques for assisting such individuals toward greater interpersonal effectiveness with partners, family members and other significant persons. This course also focuses on integrating various theoretical systems and approaches to counseling with hands-on skill development in advanced counseling techniques. Prerequisite: PS6315

PS6320 Psychological Testing and Assessment 4 credits This course covers the general principles of psychometrics and the assessment of personality, behavior, cognition and intellectual functioning. The course provides an overview of the types of tests used in clinical, educational and vocational settings. In addition to reviewing professional standards for assessment, the course covers the impact of cultural factors such as test bias, and ethical/legal issues in test design and administration. Prerequisites: admission into MACP program and PS5106

PS6323 Assessment and Treatment of Children/

Adolescents in Health Psychology 3 credits

This is an introductory course on children and adolescents' psychotherapies. It uses an integrated model of child therapy in a family context, which includes psychodynamic, cognitive-behavioral and systems perspectives. This course also explores various therapeutic modalities, using case studies to explore childhood disorders such as attention deficit hyperactivity disorder (ADHD), autism, diabetes, depression and eating disorders. Prerequisite: PS6315 or permission of instructor

PS6325 Counseling and Spirituality 3 credits
This course examines spiritual practices that can be incorporated into counseling sessions and introduces the student to a variety of other integral practices that might inform clinical practice, such as meditation and forms of spiritual healing. Prerequisite: admission into MACP program

PS6330 Group Counseling 4 credits

The course provides a comprehensive overview of group theory and process, including leadership styles, stages of group development and membership roles. Students develop group leadership skills and learn how to adapt group process to specific populations or settings. Relevant research issues are reviewed. Prerequisite: admission into MACP program

PS6332 Psychotherapy Methods and Behavioral Medicine 4 credits

This course explores various psychotherapeutic techniques, including cognitive behavior therapy, dialectical behavioral therapy, solution-focused therapy, acceptance and commitment therapy, progressive muscle relaxation, meditation, mindfulness, imagery, visualization, and biofeedback in the management of behavior and counseling practice. Prerequisite: admission into MACP program

PS6401 Mind-Body Approaches for Health 2 credits This course examines the history, experience and appropriate application of evidence-based therapeutic techniques for stress reduction, including biofeedback, progressive muscle relaxation, deep breathing exercises, guided imagery, dream work, yoga, tai chi/qigong, exercise, sleep hygiene and components of nutrition. In vivo experience and application are a key foundation of this course. Prerequisite: admission to MACP

PS6800 Clinic Shift 1

2 credits

This course provides for the application of theory and the development of counseling skills under supervision. These experiences provide opportunities for students to counsel a wide variety of clients and client issues. Prerequisite: PS5802

PS6801 Internship 1 2 credits

A supervised experience in counseling under the intensive supervision of a University faculty member as well as on-site counseling staff is the focus of this course. The internship involves the student in the day-to-day functioning of a counselor at the respective site. Throughout the internship, the student takes on more and more of the responsibilities common to counselors at the particular setting. Prerequisite: PS6800

PS6802 Internship 2 2 credits

A supervised experience in counseling under the intensive supervision of a University faculty member as well as on-site counseling staff is the ongoing focus of this course. The internship involves the student in the day-to-day functioning of a counselor at the respective site. In Internship 2, the student takes on increased responsibility. Prerequisite: PS6801

PS6803 Internship 3 2 credits

A final supervised experience in counseling under the supervision of a University faculty member as well as on-site counseling staff is the focus of this course. The internship involves the student in the day-to-day functioning of a counselor at the respective site. In Internship 3, the student takes on increased responsibility. Prerequisite: PS6802

PS6810 Internship Seminar 1 1 credit

In this seminar, students present cases for which they have already received supervision at external internship sites and discuss issues related to professional development. Field placement at those sites emphasizes exposure to counseling, psychotherapy, diagnostic interviewing and diagnostic formulation. Corequisite: PS6801

PS6811 Internship Seminar 2

1 credit

Students continue to build their skills with regard to selfassessment, client relationship and intervention, and effective and ethical use of supervision and feedback. Corequisite: PS6802

PS6812 Internship Seminar 3 1 credi

Students continue to build relationship and intervention skills, grow in their ability to self-assess and use research to formulate diagnoses, assessments and interventions. Students learn how to refer to appropriate community resources and how to terminate therapeutic relationships. Prerequisite: PS6803

PS6901, PS6902, PS6903 Independent Study

variable credit

Independent study provides the student an opportunity to study an area of interest in health psychology not included in the regular curriculum. (An independent study cannot substitute for or be used to repeat a course offered in the prescribed curriculum.) It is the responsibility of the student to enlist a qualified resource person to guide the independent study. The counseling and health psychology department chair must approve both the topic and the resource person. Prerequisite: permission of department chair

PS7101 Professional, Ethical and Legal Issues 3 credits This course explores the ethical and legal issues relevant to the practice of psychology, including such topics as confidentiality, ethical competence, privilege and multiple relationships. Ethical issues concerning private practice, licensing, certification and forensics are also covered. Principles of ethical decision making are given specific attention. Prerequisite: admission into graduate studies

PS7103 Mind Body Techniques for Stress Reduction

3 credits

This course is designed to explore various techniques, including, but not limited to, progressive muscle relaxation, meditation, mindfulness, imagery, visualization and biofeedback in the process of stress reduction and management. Prerequisite: admission into MSN/CHP program

PS7105 Alcohol and Substance Abuse 2 credits

This course explores mental health counseling history, professional standards, ethical issues and legal codes and examines alcohol and substance abuse from a biological, cultural, historical, psychological, social and nutritional perspective. Focus is on counseling, treatment interventions, behavioral management and community referral resources. Prerequisite: admission into graduate studies

PS7110 Advanced Statistics and Computer Lab

3 credits

This course is required for students electing to do a psychology thesis. Students use statistical computer packages for statistical procedures covered in TR5100 and TR5104. As time permits, more advanced statistical procedures such as discriminant and factor analysis are also presented. The lab teaches students how to create data sets, label and manipulate variables and run statistical procedures using various statistical commands. Prerequisites: TR5100, TR5104 or permission of instructor

PS7115 Developing and Evaluating Counseling

Programs 3 credits

This is a capstone clinical class for students where they apply their research knowledge and group counseling skills to develop an eight-week group program for Bastyr Center for Natural Health or their community site. The students work in teams to develop the curriculum. Basic tenets of program evaluation are also covered. Prerequisites: admission into MSN/CHP program, PS5110, PS7803, Clinic Shift 3

2 credits

PS7121 Thesis Advisement 1

This course is the first in the sequence of three courses for thesis advisement. Students form a committee and meet with their committee members to plan and implement a research project of sufficient complexity and scope in an appropriate subject area in psychology. Corequisite or prerequisite: PS7110

PS7122 Thesis Advisement 2 2 credits Continuation of Thesis Advisement 1. Prerequisite: PS7121

PS7123 Thesis Advisement 3 2 credits Continuation of Thesis Advisement 2. Prerequisite: PS7122

PS7129 Career Counseling 3 credits

This course explores career counseling theories, history and various approaches to career development. It serves to provide an introduction to the field of career counseling through consideration of both traditional and contemporary career development, and vocational choice theories and their applications to counseling. Clinical interventions, tests and assessment instruments relevant to this field are explored; cultural issues are given specific attention in this process. Prerequisites: PS7801, PS7811

PS7203 Addictions and Disorders 2 credits

This course examines the nature and treatment of alcohol and substance addictions and disorders from a physiological, psychological, nutritional and naturopathic perspective. Naturopathic scope of practice in the treatment and management of addictions is identified as well as community referral resources. Lectures are taught in a hybrid-online format. Prerequisite: PS5109 or permission of the dean or chair of program

PS7801 Clinic Shift 1: Nutrition/Clinical Health

Psychology 2 credits

This directly supervised clinical experience occurs at Bastyr Center for Natural Health and emphasizes exposure to psychotherapy, diagnostic interviewing and diagnostic formulation for adults. Prerequisites: PS5110, PS5301

PS7802 Clinic Shift 2: Nutrition/Clinical Health

Psychology 2 credits

This shift is a supervised nutrition practicum, emphasizing nutritional assessment, nutritional counseling, interviewing and chart documentation. Prerequisites: PS5301, PS5110, PS7801

PS7803 Clinic Shift 3: Nutrition/Clinical Health

Psychology 2 credits

This directly supervised experience is the integrated counseling and nutrition shift at Bastyr Center for Natural Health. Students hone group and individual counseling skills and nutritional counseling skills by providing nutritional and health behavior change counseling and group cofacilitation for an eight-week weight and lifestyle management psychoeducational group called "Weigh to Go." This experience is supervised by a psychologist and nutritionist. Prerequisites: PS5110, PS5301, PS7802

PS7805 MSN/CHP Practicum 1

Students in the MSN/CHP program receive supervised experience in a clinical setting where both nutrition and mental health counseling skills can be practiced and honed with licensed professionals from each specialty. Practicum experiences are arranged at community locations to provide students with varied opportunities and a diverse client population. As students progress from MSN/CHP Practicum 1 to 3, the level of responsibility and independence increases and different skills with a variety

program, PS7801, PS7802, PS7803 **PS7806 MSN/CHP Practicum 2**

2 credits

2 credits

A continuation of MSN/CHP Practicum 1. Prerequisites: PS7801, PS7802, PS7803 and PS7805

of clients are learned. Prerequisite: admission into MSN/CHP

PS7807 MSN/CHP Practicum 3

2 credits

A continuation of MSN/CHP Practicum 2. Prerequisites: PS7801, PS7802, PS7803 and PS7806

PS7811 Practicum Seminar 1: Nutrition/Clinical

Health Psychology 1 credit

In this seminar, students present cases for which they have already received supervision at external practicum sites and discuss issues related to professional development. Field placement at those sites emphasizes exposure to psychotherapy, especially health psychology, diagnostic interviewing and diagnostic formulation. Prerequisite: concurrent enrollment in PS7805

PS7812 Practicum Seminar 2: Nutrition/Clinical

Health Psychology

1 credit

A continuation of Practicum Seminar 1. Prerequisite: PS7811, concurrent enrollment in PS7806

PS7813 Practicum Seminar 3: Nutrition/Clinical

Health Psychology

1 credit

A continuation of Practicum Seminar 2. Prerequisite: PS7812, concurrent enrollment in PS7807

PS7901, PS7902, PS7903 Independent Study

variable credit

Independent study provides the student an opportunity to study an area of interest in counseling psychology not included in the regular curriculum. (An independent study cannot substitute for or be used to repeat a course offered in the prescribed curriculum.) It is the responsibility of the student to enlist a qualified resource person to guide the independent study. The counseling and health psychology department chair must approve both the topic and the resource person. Prerequisite: permission of department chair

Bastyr Center for Natural Health - Counseling Specialty Shift 2 credits

This required counseling shift at Bastyr Center for Natural Health provides an opportunity for naturopathic medicine students to counsel patients and receive individual supervision from the clinic counseling supervisor. The shift is limited to six students each quarter and affords ample attention to the development of each clinician's counseling skills. All naturopathic medicine students are required to take one counseling specialty shift. Students register for a patient care shift through the Doctorate in Naturopathic Medicine (ND) program. See course listings for

NM7820-NM7829 and NM8830-NM8836. Additional counsel-

ing shifts are available as electives, on a space-available basis.

See PS9801-PS9804. Prerequisites: PS6305, PS6306, PS7200

PS9101 Death and Dving

2 credits

This introductory study of death, dying and grieving is designed to provide information, deepen understanding and create an opportunity to think and feel more deeply about life. From a variety of perspectives — psychological, historical, cultural, spiritual — the course explores some of the ways in which human beings have approached and interpreted the mystery of death, expressed their responses to dying and death, and evolved a framework of meaning for life in the face of death. Prerequisite: none

PS9103 Ecopsychology 2 cred

This course introduces the student to the basic principles of the developing field of ecopsychology. This class explores evolutionary perspectives on, as well as social implications for, the merger of ecology and psychology. In addition, applications of ecopsychology within a variety of health and healing settings are examined, and an overview of the science of systems theory is intended to provide a perspective on how science has informed the study of ecopsychology. Prerequisite: none

PS9105 Psychoneuroimmunology 2 credits

This course deals with the dynamic interplay between consciousness and the immune, nervous and endocrine systems. The potential of the mind to enhance or suppress hormonal and immune function are examined. Newly evolving research on the efficacy of psychoneuroimmunology (PNI) are reviewed in relation to the progression and treatment of cancer, heart disease, AIDS, autoimmune disease and psychological disorders. Students develop skills utilizing mind-body interventions. Prerequisite: BC4114 or BC5132 or BC6204 or permission of instructor

PS9106 Psychology of Dreams 2 credit

This class explores how waking and dreaming realities interrelate with each other and what is to be gained by exploring this interrelationship. Augmenting the theories of Western psychology with historical and cross-cultural perspectives, dreams are investigated in a setting that integrates academic understanding with direct experience. This includes discussion on how to better remember dreams, how to work with one's own dreams and how to bridge dreams with waking life in an engaged manner. Prerequisite: none

PS9107 Introduction to Visualization and Imagery 2 credits

The development of imagery and visualization practices can enrich and empower our lives. This course explores the images and symbols inherent within us and ways to use these images for self-exploration. Students learn ways to use visualization and imagery for spiritual growth and awareness. Prerequisite: none

PS9108 The Psychology and Soul of Breathing 2 credits Breathing involves so much more than merely sustaining basic life functions. Breathing affects not only the quality of health, but according to many cultures, the soul and spirit. In this experiential elective, students explore the art and science of breathing from a biochemical, biomechanical and psychological perspective, while exploring breath as a means of expressing the body's ability to integrate and manifest spirit effortlessly into one's life. Prerequisite: none

PS9112 Aromatherapy and the Psyche 2 credit

This elective explores the relationship between aromas and the psyche from a clinical perspective. As well as exploring their own reaction to aromas through experiential work, students learn about the impact specific aromas have on depression, autism, Alzheimer's disease and bereavement, and learn how to use clinical aromatherapy as a tool in clinical practice. Prerequisite: none

PS9120 Counseling, Intuition and Spirituality

2 credits

This elective course examines spiritual practices that can be incorporated into counseling sessions and introduces the student to forms of spiritual healing congruent with naturopathic principles. Special focus on integrating spirituality and care of the soul as a principle of wellness and well-being. Prerequisite: PS5205 or PS6306

PS9301 Clinical Biofeedback 2 credits

This course reviews the clinical application of biofeedback techniques, emphasizing multimodality assessment and integration with counseling and holistic health care. Modalities/instrumentation discussed and demonstrated include electromyograph (EMG), electrodermograph (EDG), thermal biofeedback, heart and breathing rate feedback, and neurofeedback with EEG monitoring. Research findings for biofeedback treatment of various conditions are discussed. Students may take advantage of in-class experience with biofeedback monitoring as well as supervised practice in attaching sensors and operating equipment. Prerequisite: admission into Bastvr degree program

PS9401 Advanced Counseling 3 credits

This course is designed to strengthen previous training in counseling, specifically, in the etiology of presenting problems, the use of diagnostic decision trees and the application of treatment approaches in a clinical environment. The course facilitates experiential learning by focusing on case studies and role-playing. Prerequisite: permission of department chair

PS9405 Medical Hypnotherapy 2 credits

This weekend intensive course includes an introduction to hypnosis, its history and the specific vocabulary of the field, as well as an introduction to some basic techniques in-class practice sessions with those techniques, and in-class group discussions to devise possible hypno-therapeutic strategies for various clinical applications. Prerequisite: admission into ND program or permission of instructor

Counseling Elective Shifts 1-4 - Clinic

Students have the opportunity to take counseling shifts as elective credit once the required counseling shift is satisfactorily completed.

PS9801 Patient Care Elective (fall)

2 credits

See description above. Prerequisite: permission of department chair and clinic counseling supervisor

PS9802 Patient Care Elective (winter) 2 credits See description preceding PS9801. Prerequisite: permission of department chair and clinic counseling supervisor

PS9803 Patient Care Elective (spring) 2 credits See description preceding PS9801. Prerequisite: permission of department chair and clinic counseling supervisor

PS9804 Patient Care Elective (summer) 2 credits
See description preceding PS9801. Prerequisite: permission of
department chair and clinic counseling supervisor

DIDACTIC PROGRAM IN DIETETICS

Cristen Harris, PhD, RD, LD/N, MSN/DPD Director Elizabeth Kirk, PhD, RD, BSN/DPD Director

RD4105 Introduction to Dietetics

1 credit

This course builds upon written and oral communication skills to prepare senior dietetic students for success in obtaining a dietetic internship. Topics covered include resume and cover letter writing skills in preparation for the internship and careers. Students utilize a variety of media to build upon interviewing skills and portfolio presentation. The code of ethics for dietitians and professionalism are highlighted to help students succeed in their internships and careers. Methods for dietetic registration and continuing education are also discussed. Prerequisite: admission into BSN/DPD program

RD4120 Perspectives in Leadership and Management 3 credits

Skills and roles of a "manager" versus a "leader" are delineated. Theories of management are reviewed, and the functions, skills and tools of management are explored. Human resource management techniques are introduced, as well as labor relations, law and financial management. Students study program planning, assessment and quality improvement, and are introduced to health care systems. The impact of effective leadership on the dietetics profession is discussed, and students assess leadership abilities. Prerequisite: admission into BSN/DPD program

RD4130 Quantity Food Production 3 credits

Cross listed as TR4132. This course introduces the food service industry and quantity food production. Major types of food service operations are identified, and trends that impact food service systems are explored. Students are introduced to the steps of quantity food production: procurement, receiving, storage, preparation, distribution and service. Potential hazards and related safe food-handling practices are identified. Development of standardized recipes and institutional menus are practiced, with marketing theory and techniques introduced. Students are introduced to standard food service equipment, kitchen sanitation and safety. Prerequisite: admission into BSN/DPD program

Medical Nutrition Therapy 1-3

In this three-course sequence, students learn the principles of the Nutrition Care Process, nutrition assessment, including anthropometric measurements, nutrient-specific laboratory data, drug-nutrient-herb interactions, direct clinical observations, guidelines for both prevention and therapeutic dietary planning, nutrient intake analyses and evaluation, and complementary nutritional therapies. Interpreting medical terminology and implementing the nutrition care process, including documentation in the medical records, are included.

RD4301 Medical Nutrition Therapy 1: Assessment and Diagnosis 5 credits

This course introduces nutrition assessment and diagnosis terminology utilizing the Nutrition Care Process. Medical terminology, abbreviations and standardized language for the Nutrition Care Process are practiced. Both allopathic and natural medicine perspectives are offered, including food-as-medicine, whole-food menu writing and disease prevention strategies. Anthropometric, biochemical, clinical observation and client history, and dietary history and assessment measures are included. Students begin medical documentation practice using outpatient-based case studies. Prerequisite: admission into BSN/DPD program. Corequisites: BC4114, TR4107

RD4302 Medical Nutrition Therapy 2: Chronic Disease Management 5 credits

See description preceding RD4301. This course is a continuation of MNT 1. Students continue to practice nutrition assessment and diagnosis terminology to manage a variety of chronic health conditions, including cancer, kidney disease and liver disease. Nutrition intervention strategies utilize both allopathic and natural medicine perspectives. Students further develop their assessment and documentation skills from MNT 1 to a level adequate for entry into their Clinical Practicum. Prerequisites: RD4301 and admission into BSN/DPD program. Corequisite: TR4108

RD4303 Medical Nutrition Therapy 3: Critical Care

3 credits

This course prepares dietetic students for the clinical rotation of an internship. Course content emphasizes acute and critical care disorders, and enteral and parenteral nutrition using case studies. Students must be enrolled in this course in order to sit for the DPD exit exam. Prerequisite/corequisite: RD4302 and admission into BSN/DPD program

RD4410 Clinical Dietetic Practicum 2 credi

This course is designed to prepare students in the BSN/DPD program for dietetic internship. Clinical dietetic practicum allows the student to practice patient contact, requiring the student to manage consultations and assume primary responsibility for nutritional interventions. Activities may include group teaching, experience with "standardized" patients and one-to-one nutrition counseling sessions. Each student works in a team with other students (under faculty supervision) for consultation management and nutritional interventions. Prerequisites: RD4302, TR4207 and admission to BSN/DPD program. Corequisite: RD4303

RD6105 Introduction to Dietetics

1 credit

This course builds upon written and oral communication skills to prepare senior dietetic students for success in obtaining a dietetic internship. Topics covered include resume and cover letter writing skills in preparation for the internship and careers. Students utilize a variety of media to build upon interviewing skills and e-portfolio presentation. The code of ethics for dietitians and professionalism are highlighted to help students succeed in their internships and careers. Methods for dietetic registration and continuing education are also discussed. Prerequisite: admission into MSN/DPD program

Food Service Management 1-3

In this three-(3) course sequence taught at the graduate level, students learn about the food service industry, basic budgeting and accounting principles, quantity food production, marketing, quality improvement, safety and sanitation, regulations, and staffing. Using a managerial and systems approach to food service organizations, students combine theory and practice, develop business and marketing plans, and explore techniques of effective leadership and communication essential to becoming an effective manager.

RD6131 Food Service Management 1 2 credits See description above. This course, the first of a three-part series, introduces the student to the food service industry. Students learn the principles of quantity food production, including procurement, production, distribution, service, sanitation and safety. Students learn HACCP standards of quality in food service production facilities. Emphasis is placed on quality control and business management. For successful completion of this course, students must pass the ServSafe Certification examination. Additional fees for ServSafe Certification may be incurred. Students are also introduced to the concept of the business plan that will be carried forward the following quarter. Prerequisite: admission into MSN/DPD program

RD6135 Food Service Management 2 2 credits

See description preceding RD6131. This course is a continuation of Food Service Management 1. Students develop a business plan in which they create the concept, organizational structure, initial operational budget, menu and marketing plan of a specific food service operation. Students develop models for ordering, receiving, inventory, staffing, orientation, training and labor schedules. Human resource management, facilities management, leadership and effective communication continue to be highlighted. Prerequisites: RD6131 and admission into MSN/DPD program

RD6140 Food Service Management 3 2 credits See description preceding RD6131. This course, the third of a three-part series, continues to focus on the management of food service systems, including personnel and financial resources.

service systems, including personnel and financial resources. Working with diverse populations, labor unions and managing within legal regulations are emphasized. Students gain handson experience in a capstone project through the planning and implementation of an on-campus catering event. Prerequisites: RD6135 and admission into MSN/DPD program

RD6403 Medical Nutrition Therapy 3 credits

This course prepares dietetic students for the clinical rotation of an internship. Course content emphasizes acute and critical care disorders and enteral and parenteral nutrition using case studies. Students must be enrolled in this course in order to sit for the DPD exit exam. Prerequisites: TR5321 and admission into MSN/DPD program

SCIENCE AND NATUROPATHY

Jane Guiltinan, ND, Dean, School of Naturopathic Medicine Lynelle Golden, PhD, Chair, Basic Sciences Department

SN5100 Clinical Skills Lab 1

1 credit

Students begin developing recognition of surface anatomy landmarks as well as palpation skills in preparation for conducting physical exams. Surface anatomy and palpation of the musculoskeletal system are covered, including palpation of the pelvis, back (including lumbar), thoracic and cervical spine, head, pelvis and extremities. The development of clinical skills builds on structurefunction relationships that are covered in the integrated systems modules running concurrently with this module. Prerequisite: admission to the naturopathic medicine program. Corequisite: BC5151

SN5101 Clinical Skills Lab 2 1 credit

Students continue developing recognition of surface anatomy landmarks as well as palpation skills in preparation of conducting physical exams of the cardiovascular, respiratory (including nose and throat) and gastrointestinal systems. Students also learn auscultation skills for these specific systems. Students learn how to perform and interpret blood pressure assessments. The development of clinical skills builds on structure-function relationships that are covered in the scientific foundations modules that run concurrently with this module. Corequisites: winter quarter integrated systems modules

SN5102 Clinical Skills Lab 3

Students continue developing recognition of surface anatomy landmarks as well as palpation skills in preparation for conducting physical exams. Students learn how to perform neurologic testing such as assessing the cranial nerves and deep tendon reflexes. Also during this quarter, students learn how to perform a basic multisystem physical exam. The development of clinical skills builds on structure-function relationships that are covered in the integrated systems modules that run concurrently with this module. Corequisites: spring quarter integrated systems modules

SN5103 Integrated Case Studies 1 1 credit
This module requires students to apply principles from both
Naturopathic Theory and Practice 1 and the integrated systems
modules in the review, discussion and presentation of cases.
Cases in the first year focus on wellness. Cases in this quarter
require students to demonstrate competencies for the neuroendocrine and musculoskeletal systems. Prerequisite: admission
to the naturopathic medicine program. Corequisites: NM5141,
BC5150 and BC5151

SN5104 Integrated Case Studies 2 1 credit

This module requires students to apply principles from both Naturopathic Theory and Practice 2 and integrated systems modules in the review, discussion and presentation of cases. Cases in the first year focus on wellness. Cases this quarter require students to demonstrate competencies for the cardiovascular, immune, respiratory and digestive systems. Corequisites: NM5142 and winter quarter integrated systems modules

SN5105 Integrated Case Studies 3 1 credit
This module requires students to apply principles from both
Naturopathic Theory and Practice 3 and integrated systems
modules in the review, discussion and presentation of cases.
Cases in the first year focus on wellness. Cases in this quarter
require students to demonstrate competencies from the endocrine and metabolism, renal, reproductive and nervous system
modules. Corequisites: NM5143 and spring quarter integrated
systems modules

SN6100 Integrated Case Studies 4 0.5 credit Students participate in case discussions every two weeks that require application of clinical reasoning and scientific concepts to support a differential diagnosis. Case topics address the systems covered in Naturopathic Clinical Diagnosis 1. Corequisites: BC6101, BC6102, NM6310

SN6101 Integrated Case Studies 5 0.5 credit Students participate in case discussions every two weeks that require application of clinical reasoning and scientific concepts to support a differential diagnosis. Case topics address the systems covered in Naturopathic Clinical Diagnosis 2. Corequisites: BC6103, BC6104, NM6311

SN6102 Integrated Case Studies 6 0.5 credit Students participate in case discussions every two weeks that require application of clinical reasoning and scientific concepts to support a differential diagnosis. Case topics address the systems covered in Naturopathic Clinical Diagnosis 3. Corequisites: BC6105, BC6106, NM6312

SN6300 Integrated Therapeutics 1 3.5 credits

This module addresses basic principles of botanical medicine and pharmacology. Students learn similarities and differences between the two therapeutic modalities and discuss them in the context of the therapeutic order. Applications of these therapeutics to blood and the integumentary and musculoskeletal systems is also addressed. Prerequisite: completion of all first-year Scientific Foundations modules or permission of the dean or chair of program

SN6301 Integrated Therapeutics 2 4.5 credits

This module addresses basic principles of botanical medicine and pharmacology. Students learn similarities and differences between the two therapeutic modalities and discuss them in the context of the therapeutic order. Applications of these therapeutics to blood and the integumentary and musculoskeletal systems are also addressed. Prerequisite: NM6300 or permission of the dean or chair of program

SN6302 Integrated Therapeutics 3 5.5 credits

This module addresses applications of botanical medicine, nutrition and pharmacology to the renal, reproductive, endocrine and nervous systems. Students learn similarities and differences between these therapeutic modalities and discuss them in the context of the therapeutic order. Prerequisite: NM6301 or permission of the dean or chair of program

SN7300 Advanced Case Studies 1 0.5 credit

This module requires students to apply principles from naturopathic medicine modules in the discussion, diagnosis and treatment of cases. Cases in the third year focus on treatment of disease. Cases in this quarter require students to demonstrate competencies for the nervous system and mental health issues as well as the endocrine system. Corequisites: NM7111, NM7318, NM7319, NM7321

SN7301 Advanced Case Studies 2 0.5 credit

This module requires students to apply principles from advanced naturopathic practice modules in the discussion, diagnosis and treatment of cases. Cases in the third year focus on treatment of disease. Cases in this quarter require students to demonstrate competencies for the digestive, cardiovascular and respiratory systems. Corequisites: NM7112, NM7322, NM7323, NM7324.

SN7302 Advanced Case Studies 3 0.5 credit
This module requires students to apply principles from advanced
naturopathic practice modules in the discussion, diagnosis and

naturopathic practice modules in the discussion, diagnosis and treatment of cases. Cases in the third year focus on treatment of disease. Cases in this quarter require students to demonstrate competencies for the male and female reproductive and urological systems as well as the renal system. Corequisites: NM7113, NM7328, NM7329, NM7331

SN8300 Advanced Case Studies 4 0.5 credit

This module requires students to apply principles from advanced naturopathic practice modules in the discussion, diagnosis and treatment of cases. Cases in the fourth year focus on treatment of disease. Cases in this quarter require students to demonstrate competencies for the integumentary system and EENT. Corequisites: NM8100, NM8304, NM8305

NUTRITION

Debra Boutin, MS, RD, Department Chair

Bachelor of Science in nutrition major (TR) courses and Master of Science in nutrition (TR) courses below. For course numbers and descriptions for the Dietetic Internship (DI), Didactic Program in Dietetics (RD), and Exercise Science and Wellness (EX), see alphabetical listings.

TR2101 Introduction to Human Nutrition (online course) 3 credits

This course introduces a basic understanding of the fundamentals of human nutrition with a whole-food perspective. Topics include the functions and food sources of carbohydrates, lipids, protein, water, vitamins and minerals. Dietary reference intakes (DRI) and other standard nutrition guidelines (both national and international) are reviewed. Food labels, nutrient intake analyses and basic nutrition assessment methods are presented and practiced. Energy balance and weight management issues are reviewed. This class is only offered online and fulfills the nutrition prerequisite admission requirement for all programs in the department. Prerequisite: none

TR3111 Nutrition Throughout Life 3 credits

This course introduces the essentials of normal human nutrition throughout the life span: pregnancy, infancy, childhood, adolescence, mature adulthood and older adulthood. A hybrid model of instruction is introduced, using classroom and online delivery of course content. Prerequisite: TR2101 or equivalent

TR3115 Introduction to Food Science 2 credits This course is an introduction to areas of food science and includes a discussion of the laws relating to food, including labeling laws and the role of regulatory agencies. The course also includes an overview of food additives and food processing. Prerequisite: BC3123 Corequisite: BC4117 or permission of instructor

TR3120 Experimental Foods Lecture/Lab 5 credits This course introduces students to the composition and physiochemical changes in foods in relationship to the interaction, reaction and evaluation of foods due to formulation, processing and preparation. Topics include water, carbohydrates, fruits and vegetables and their respective pigments, fats, oils animal and plant-based proteins. Review of food formulation, sensory evaluation, processing and preparation are explored in the laboratory section of this class. Students must show evidence of holding a current food handler's permit. Prerequisites: BC4117, TR3115 Corequisite: BC4140

TR3121 Culinary Skills 1: Soups and Seasonings with Intuition 2 credits

Students develop knife skills and are introduced to the basics of creating stocks, sauces, soups and stews. Vegetable cookery is practiced, as well as the fundamentals of working with animal proteins, including eggs, meat, fish and fowl. Bean and grain cookery are reviewed. Flatbread and quick bread methods are introduced. Students begin developing original recipes. Prerequisites: TR4103/5101, current food handler's permit

TR3122 Culinary Skills 2: Suppers and Desserts with Originality 2 credits

Students practice baking skills, including yeasted breads, pies, cakes and cookies. Some larger cuts of meat, marinades and vegetarian proteins are explored. Creating a portfolio of original recipes continues. Class culminates in presentation of an original main entrée, side dishes and dessert. Prerequisites: TR3121 current food handler's permit; students enrolled in the culinary arts program must have achieved a 2.0 (C grade) or better in Culinary Skills 1 to move into Culinary Skills 2

TR3141 Therapeutic Cooking 1: Maintaining Health 2 credits The focus of this course is on how food and diet can be used to promote health. Students learn how to adapt dishes, prepare remedies and design meals that are health-supportive for individuals or groups with acute illnesses, elevated needs and lifestyle challenges. Prerequisite: TR4103/5101

TR3142 Therapeutic Cooking 2: Illness and Recovery 2 credits The focus of this course is on using food and diet as medicine. Students learn how to adapt dishes, prepare remedies and design meals that are health-supportive for individuals or groups with specific chronic medical conditions, elevated needs and lifestyle challenges. Prerequisite: TR3141

TR3152 Cooking Demonstration 2 credits

This course is designed to give students the skills and practice they need to be able to do cooking demonstrations or teach classes for the public. Each student designs his/her own cooking class, emphasizing whole foods. Students practice-teach parts of their class, learn how to assist other teachers and evaluate their peers. Writing proposals and marketing are discussed. Final student demonstrations are presented for an invited audience. Prerequisite: TR4103/5101

TR3153 Writing About Food and Health
This course introduces students to the skills needed for a parttime or freelance career in writing or is appropriate for those
interested in improving writing skills. Students learn how to
differentiate writing styles and practice various structures such
as blog posts, news stories, research articles and memoirs.
Composing pitches and proposals are covered. Assignments
are turned in several times, allowing for editing and re-writing
to be practiced, thus honing style and skills. Prerequisite:
admission into the BSN culinary arts program or permission
of program director

TR3163 The Business of Cooking 3 credits

Personal chefing, private chefing, cooking classes, catering and food delivery services are in demand. This course helps students devise a business plan to pursue self-employment. Each week a different part of the business structure is analyzed, including goal setting, licensing, financing and marketing. Students also learn intake skills and how to create a business resume. At the end of the course students will have constructed a viable business plan. Prerequisite: admission into BSN culinary arts program or permission of program director

TR4100 Introduction to Research Methods 3 credits This course, designed for students in nutrition and exercise science, is an introduction to research methods. Included are the basic concepts of scientific method, statistics, epidemiology and research methodology. Students practice applied research skills such as use of the library and Internet, evaluation of research literature and scientific writing, and design and conducting of research. A CITI training module is completed. Prerequisites: college algebra, TR2101 or equivalent

TR4103 Whole Foods Production 3 credits
Cross listed as TR5101. This course covers the identification,
labeling and selection of foods from nature to point of purchase.
The lab portion of class completes the cycle from store to table
with a weekly cooking practicum. Students develop familiarity
with minimally processed foods and use these foods to build
culinary skills. Fundamental cooking techniques, recipe writing
and menu planning are stressed. Prerequisite: none

TR4107 Advanced Nutrition Principles 1 4 credits
This course is the first of a two-course series. Biochemical and
physiological principles related to macro- and micronutrients
and vitamins are the focus of this class. Structure, function,
digestion, absorption, food sources, requirements, nutrient
interactions, deficiencies and toxicity of selected macro- and
micronutrients are discussed. General principles are stressed.
Prerequisites: BC3163, BC4140 and introductory nutrition
course

TR4108 Advanced Nutrition Principles 2 2 credits
This is a continuation of Advanced Nutrition Principles 1.
Biochemical and physiological principles related to elements
(minerals) are the focus of this class. Digestion, absorption,
food sources, requirements, function, nutrient interactions, deficiencies and toxicity of selected micronutrients are discussed.
General principles are stressed. Prerequisites: TR4107

TR4113 Nutritional Supplements and Herbs 3 credits This course explores the natural products industry, including the history, regulation and labeling laws of the industry in the U.S. Safety, manufacturing and formulation techniques, delivery form, general applications of nutritional supplements, functional foods and herbs are presented. Prerequisites: TR3111 or equivalent, TR4107. Corequisite: TR4108

TR4117 Nutrition, Physical Activity and Disease

5 credits

This course provides an overview of common chronic diseases, their pathophysiology and primary prevention strategies. Designed as a capstone, this course incorporates Bastyr's philosophy of the inseparability of mind, body, and spirit, while focusing on integrating the students' prior knowledge towards developing strategies to help individuals, groups and communities improve their health. Common theories of health behavior are introduced and utilized in this effort. Prerequisites: BC3163, TR3111, TR4108, TR4205

TR4118 Cultural Perspectives on Foods
This course is a survey of present and past food practices around the globe, with emphasis on diverse cultural groups in the U.S.
The socioeconomic and political factors in food selection are examined. Multicultural and interdisciplinary perspectives are used to broaden the understanding of basic nutrition. Prerequisite: TR2101 or equivalent

TR4123 Culinary Skills 3: Appetizers and Entrees with Beauty 2 credits

This course culminates in students preparing and serving a multicourse dinner to invited guests. To prepare, students learn how to create appetizers and hors d'oeuvres, layered entrees and multifaceted desserts using whole-food ingredients. How to garnish and plate elegantly are discussed. Prerequisites: TR3122, current food handler's permit; students enrolled in the culinary arts program must have achieved a 2.0 (C grade) or better in Culinary Skills 2 to move into Culinary Skills 3.

TR4126 Community Nutrition/Nutrition Education

5 credits

This course examines the principles of public health, community nutrition, epidemiology, health care systems, legislation and nutrition policy. Additionally, this course reviews effective oral and written communication skills, covering principles of nutrition education, including teaching/learning methods for target audiences, writing instructional goals and objectives, preparing appropriate nutrition education materials, and evaluating nutrition education programs. Prerequisites: TR4108, TR4140

TR4132 Quantity Food Production 3 credits
Cross listed as RD4130. This course introduces the food
service industry and quantity food production. Major types of
food service operations are identified, and trends that impact
food service systems are explored. Students are introduced to
the steps of quantity food production: procurement, receiving,
storage, preparation, distribution and service. Potential hazards
and related safe food-handling practices are identified. Development of standardized recipes and institutional menus are
practiced, with marketing theory and techniques introduced.
Students are introduced to standard food service equipment,
kitchen sanitation and safety. Prerequisite: admission into the
BSN culinary arts program

TR4140 Ecological Aspects of Nutrition 2 credits
This course is an introduction to ecological issues in nutrition.
Students gain an understanding of environmental issues related
to food technology, water use and food production systems,
including organic and sustainable agriculture. The regulation
of these areas is also discussed. Prerequisite: admission to BSN
program or approval from department chair

TR4205 Nutritional Analysis and Assessment 3 credits This course provides the opportunity for students to develop practical experience in nutrition education through presentations and preceptorships. This course may be taken in any quarter, except summer, during year two. Prerequisite: completion of junior year, permission of instructor

TR4207 Nutritional Counseling 2 credits

This course introduces advanced interviewing techniques used in nutritional counseling. Students explore their personal nutritional counseling style through role-play, visualization and other counseling techniques. Students build an understanding of the complexities of diet and compliance issues. Prerequisites: admission into DPD program, introductory psychology course, PS3127

TR4805 Nutrition Education Practicum2 credits
This course provides the opportunity for students to develop
practical experience in nutrition education through presentations and preceptorships. This course may be taken in any
quarter, except summer, during year two. Prerequisites: completion of junior year, permission of instructor

TR4820 Culinary Practicum 4 credits

Students gain practical experience in the culinary world. Working in an off-campus venue under an approved preceptor and also supervised hours in the Bastyr Dining Commons kitchen, students further their skills and understanding of working in a professional setting. Prerequisites: completion of TR3122 and TR3142, current food handler's permit; a 2.0 (C grade) or better in all designated culinary courses or approval of culinary arts director. Students must be in good academic standing to pursue practicum.

TR4901, TR4902, TR4903 Independent Study

variable credit

Credits may be applied to the nutrition elective requirement. Students focus on areas of interest not covered in the regular curriculum. Competencies and learning objectives are developed with a faculty sponsor or approved preceptor. Independent study cannot substitute for core courses offered on campus. Students must be in good academic standing and may take a maximum of four (4) credits. Prerequisite: permission of chair

TR5100 Biostatistics 4 credits

This is an introductory course in biostatistics with an emphasis on understanding and interpreting the common statistical methods used in health sciences research. Topics discussed include presentation and summarization of data, probability, inferential statistics, methods for comparisons of means and proportions, methods for measurement of association, prediction and multivariate statistical methods. Prerequisites: one course in college algebra and admission into Master of Science in nutrition or permission of department chair; TR5104

TR5101 Whole Foods Production 3 credits

Cross listed as TR4103. This course covers the identification, labeling and selection of foods from nature to point of purchase. The lab portion of class completes the cycle from store to table with a weekly cooking practicum. Students develop familiarity with minimally processed foods and use these foods to build culinary skills. Fundamental cooking techniques, recipe writing and menu planning are stressed. Prerequisite: none

This course covers the major research methodologies used in health sciences research. This course covers the major epidemiologic and experimental methods used in health sciences. Qualitative and quantitative methods are discussed. The emphasis is on the design and interpretation of research studies.

TR5104 Research Methods in Health Sciences 3 credits

emphasis is on the design and interpretation of research studies. Prerequisites: admission into Master of Science in nutrition or permission of chair

TR5115 Food Science 5 credits

This course is an overview of food science for nutritionists. The composition and the chemical and physical properties of the major food groups are the focus. Food formulation, processing and preparation are emphasized. The technological, safety and regulatory aspects of food and food additives are also discussed. Students must show evidence of holding a current food handler's permit. Prerequisites: admission into Master of Science in nutrition program, TR5140

TR5120 Advanced Nutrition: Macronutrients 5 credits Nutritional biochemistry of the macronutrients, including integrated metabolism, is discussed. Macronutrient digestion, biological requirements, absorption and metabolism are emphasized. Students apply these principles to various dietary and metabolic states. Prerequisites: Five quarter credits of nutrition, one 300- or 400-level biochemistry course or equivalent, admission into Master of Science in nutrition program

TR5124 Advanced Nutrition: Micronutrients 5 credits Nutritional biochemistry of the micronutrients (vitamins and minerals) is discussed, including chemical structures, nomenclature, dietary sources, functions, bioavailability, metabolism, evidence for requirements, potential deficiency and toxicity, interaction with other nutrients and assessment of nutritional status. Prerequisites: TR5120, admission into Master of Science in nutrition program

TR5128 Applied Research Skills 3 credits

This course emphasizes gaining skills required to plan and execute research studies in health sciences. Topics covered include scientific writing, literature review skills, developing hypotheses, human ethics in research and scientific presentation skills. A research proposal is developed as part of this class. Prerequisites: TR5100, TR5104, admission into MSN program

TR5132 Applied Statistical Analysis 2 credits

This course emphasizes practical skills: data management, data analysis, SPSS and/or other statistical programming. More advanced statistical procedures such as multivariate and factor analysis are also presented. Students learn how to create data sets, label and manipulate variables, and run statistical procedures using various statistical commands in lab. Prerequisite: TR5128 or permission of instructor

TR5136 Nutrition in the Life Cycle (hybrid online/onsite course) 3 credits

Physiological, metabolic, interpersonal and developmental relationships to nutrition are explored through the various stages in the life cycle, including infancy, childhood, young adulthood, pregnancy, mature adulthood and older adulthood. Prerequisites: admission into Master of Science in nutrition program and introductory nutrition course

TR5140 Advanced Nutrition: Bioactive Compounds in Foods 3 credits

There are biologically active compounds, found mainly in plant foods (sometimes called phytochemicals), that are not nutrients or human metabolites and that have potentially important effects on human physiology. This course reviews the current evidence on these compounds, including chemical structure and nomenclature, biological effects, food sources, absorption and metabolism, potential therapeutic uses, and toxicity. Examples of compounds to be discussed: bioflavonoids, carotenoids, tocopherols/tocotrienols, plant sterols, pre/probiotics, indoles/glucosinolates and alkenyl cysteine sulfoxides. Prerequisites: TR4108 (for Bachelor of Science programs); TR5124 (for Master of Science programs); TR6311 (for ND program) or equivalents

TR5207 Nutritional Counseling 2 credits

This course introduces advanced interviewing techniques used in nutritional counseling. Students explore their personal nutritional counseling style through multicourse, visualization and other counseling techniques. Students build an understanding of the complexities of diet and compliance issues. Prerequisites: PS5301, admission into MSN/DPD program or permission of DPD director

TR5320 Nutrition Assessment and Therapy 1 5 credits This course introduces disease prevention, nutrition assessment and therapeutic interventions, including both traditional and natural medicine approaches. Medical terminology and abbreviations, using food-as-medicine, whole-food menu writing, nutritional screening and assessment with documentation for the medical record utilizing case studies are included. Anthropometric, biochemical, client history, physical findings, and food and nutrition-related history indicators are defined, interpreted and applied. Anemia, dysbiosis, food allergies and sensitivities, upper and lower GI diseases, cardiovascular disease, diabetes, hypertension, and obesity are covered. Prerequisites: BC5118, TR5120, TR5136. Corequisites: BC5132, TR5124

TR5321 Nutrition Assessment and Therapy 2 5 credits This course is a continuation of Nutrition Assessment and Therapy 1. Students continue to practice application of nutrition assessment and intervention therapies. Oral/dental and bone health, cancer, HIV/AIDS, neurological diseases, dysphagia, pulmonary disease, chronic kidney disease, endocrine imbalance, detoxification and biotransformation, inflammatory diseases, and biliary and liver disease are covered. Assessment of normal pediatric nutrition is introduced. Nutrition intervention strategies using both traditional and natural medicine approaches are practiced. Prerequisites: BC5132, TR5124, TR5320; TR5207 (for DPD only)

TR5803 Nutrition Clinic Entry

1 credit

This class covers clinic requirements, procedures and policies, including both clinic-wide and nutrition shift issues. Focus is on topics such as team care philosophy, CPR, medical documentation and HIPPA training. This course may be taught in a hybrid/online model. Prerequisites: TR5207 or PS5301, TR5320, admission into MSN/DPD or MSN/CHP program, or permission of instructor. Corequisite: TR5321 or PS6315

TR5901, TR5902, TR5903 Independent Study

variable credit

Credits may be applied to the nutrition elective requirement. Students focus on areas of interest not covered in the regular curriculum. Competencies and learning objectives are developed with the help of an instructor or approved preceptor. Independent study cannot substitute for core courses offered on campus. Students must be in good academic standing and may take a maximum of four (4) credits. Prerequisites: permission of chair, admission into Master of Science in nutrition program

TR6100 Nutritional Supplementation 4 credits
This course focuses on the nutritional and physiological value
of supplements and herbal products as applied to wellness
promotion and chronic disease management. Production,
safety and regulation of supplements and herbs are discussed.
Students learn basic botanical concepts, terms and pharmacology. Prerequisites: TR5140, TR5321

TR6105 Nutrition and Dietary Systems

This course introduces AOM students to the importance of nutrients, foods and diets for prevention, health maintenance, and health promotion. This course provides students with a basic understanding of the fundamentals of human nutrition, including macro, micro and accessory nutrient concepts. A critical analysis of Western and non-Western dietary systems is presented. Students learn to do nutritional assessment for their patients. Prerequisite: AOM internship eligibility

TR6111 Contemporary Nutrition: Global and

Ecological Issues 2 credits

This is the first class in a three-course series that focuses on the importance of food and food choice in a broad context. Interactions between food choice and ecology, including such areas as food technology, water use and sustainable agriculture, are discussed. Food security and world hunger are included. Prerequisite: admission into Master of Science in nutrition program

TR6114 Thesis variable to 12 credits

Students form a committee and meet with their committee members to plan and implement a research project of sufficient complexity and scope in an appropriate subject area. Twelve (12) credits are necessary to meet the requirement for scholarly activity mandated for graduation with a master's degree. Thesis requirements are detailed in the Bastyr University nutrition program *Master's Thesis Handbook*. Prerequisites: TR5100, TR5104, TR5128

TR6116 Thesis Seminar

1 credit

This course is designed to assist students in developing skills important in performing thesis research. The format varies, but examples of activities include: presentation of thesis proposals, problem solving, reviewing recent scientific literature, and learning and practicing applicable methods (e.g., research design, research budgets, IRB applications, statistical and data analysis techniques, oral and written presentation). This one-credit class needs to be taken for three separate quarters, starting with the first quarter students enroll in thesis credits. Prerequisites: TR5100, TR5104, TR5128. Corequisite: TR6114

TR6122 Contemporary Nutrition: Community and Culture 3 credits

This is the second class in a three-course series that examines public health, community nutrition and health care systems. Students begin to assess the needs of a community, outlining the background to a public health grant that will be completed in TR6133. Students explore publicly funded nutrition programs, comparing and contrasting effective community nutrition education in affecting dietary behavior change and critically evaluating effective interventions in communities with different cultural backgrounds. Prerequisites: admission into Master of Science in nutrition program, TR6111

TR6133 Contemporary Nutrition: Public Health

3 credits

This is the third class in a three-course series that culminates in development of a public health grant. Students explore funding sources for public health nutrition grants and explore both historical perspectives and emerging trends in nutrition policy, as they gain an understanding of the role of the community nutritionist in advocating and securing public health funds to support community nutrition interventions. Prerequisites: admission into Master of Science in nutrition program, TR6122

TR6199 Thesis Continuation 0 credits

This course is used when a student is still working on a thesis but has already registered for the required number of thesis credits. One credit of tuition is charged. Prerequisite: TR6114 (12 credits)

TR6310 Foods, Dietary Systems and Assessment 3 credits

This course introduces students to the importance of foods and diets for prevention, health maintenance and health promotion. A critical analysis of Western and non-Western diet systems is presented. Students learn to do a basic food and diet assessment for their patients. Nutrition in naturopathic primary care, co-management and referral are discussed. The place of eating, foods and diet systems, and interventions is considered in the context of naturopathic clinical theory, the therapeutic order and clinical practice, including an introduction to natural hygiene and public health perspectives. An introduction to macronutrients transitions students into TR6311. Prerequisites: BC5106, BC5145

TR6311 Macro- and Micronutrients 3 credits

This course gives an overview of the metabolism, absorption, transport functions, requirements (deficiencies and toxicities), food sources, nutrient-nutrient interactions, and general therapeutic uses of various macro- and micronutrients. This course is required for students pursuing the naturopathic medicine degree. Prerequisites: BC5106, BC5124, BC5145, TR6310

Clinic Nutrition Practicum 1-2

Students in the MSN/DPD and MSN/CHP programs receive supervised experience in the clinical setting. Nutritional assessment, client counseling, interviewing and chart documentation are emphasized in skill development. Supervisor feedback and self-evaluation are used to help identify and develop individual areas of focus. Activities may include, but are not limited to, observation of experienced practitioners, group teaching, experience with "standardized" patients and one-to-one nutrition counseling sessions. The practicum may occur on campus, at Bastyr Center for Natural Health or at an external clinic site. As students progress from Clinic Nutrition Practicum 1 to Clinic Nutrition Practicum 2, the level of individual responsibility increases. In Clinic Nutrition Practicum 1, there is a greater emphasis on observation and skill building. The student's role in direct client contact increases in Clinic Nutrition Practicum 2, where students are expected to take more of a leadership role in nutrition consults, with client interviewing, nutrition assessment, intervention and medical documentation.

TR6811 Clinic Nutrition Practicum 1 2 credits
See description above. Prerequisites: BC5132, TR5136, TR5207,
TR5321, TR5803 (for DPD program); BC5132, PS5301,
PS5202, TR5803, PS6315, TR5136, TR5321 (for MSN/CHP);
meeting criteria for professional behavior and attitudes or
permission of nutrition clinic coordinator

TR6812 Clinic Nutrition Practicum 2 2 credits See description above. Prerequisite: TR6811 and meeting criteria for professional behavior and attitudes

TR6901, TR6902, TR6903 Independent Study

variable credit

Credits may be applied to the nutrition elective requirement. Students focus on areas of interest not covered in the regular curriculum. Competencies and objectives are developed with a faculty sponsor or approved preceptor. Independent study cannot substitute for core courses offered on campus. Students must be in good academic standing and may take a maximum of four (4) credits. Prerequisite: permission of program chair

TR8401 Nutrition Issues in Cancer Care 3 credits
This course provides an analysis of the nutritional needs of the
cancer patient, including the role of nutritional supplementation,
management of clinical side effects of cancer treatment and an
introduction to whole-food nutritional strategies. Students are
taught to recognize and triage potential nutritional deficiencies
in patients as well as analyze the dietary protocols often utilized
in cancer treatment planning. Prerequisites: BC7105, OM7412,
permission of AOM dean, or second year of Master of Science
in nutrition program

TR9106 Quillisascut Culinary Farm Experience 2 credits This is a one-week, onsite course at the Quillisascut Farm near Colville, WA. Students have a unique opportunity to experience the farm-to-table connection first hand. Participants milk goats, make cheese, help care for farm animals, transplant vegetables and harvest produce from the gardens. Visits to neighboring organic farms and presentations of current farm and food topics give an understanding of the implications of buying seasonal and local. Students work with a chef to prepare lunch and dinner using only ingredients from the garden and products from local farms. Retreat participants stay at the farm school, with bunkhouse-style lodging, shared bathrooms and a professional kitchen. Prerequisite: none

TR9107 Ayurvedic Nutrition – Principles and Practices 2 credits

Students learn the fundamentals of Ayurvedic nutrition, which includes the use of the six tastes for balancing digestion and metabolism. Students practice preparation of supportive foods for the various Ayurvedic body types using common herbs and spices. Prerequisite: none

TR9118 Food and Society (hybrid online/onsite course) 2 credits

This elective offers students a broad perspective of the diverse political, environmental, cultural, biological and psychological factors that influence food choice. This perspective supports an understanding of the challenges faced by individuals when trying to improve nutrition habits. The course incorporates contemporary media, both books and films, and students engage in projects related to the food system. Prerequisite: none

TR9120 Writing About Food and Health 2 credits

This course introduces students to the skills needed for a parttime or freelance career in writing or is appropriate for those interested in improving their writing skills. Students learn how to differentiate writing styles and practice various structures such as blog posts, news stories, research articles and memoirs. Composing pitches and proposals are covered. Assignments are turned in several times, allowing for editing and rewriting to be practiced, thus honing style and skills. Students do not have the option to audit this course. Prerequisite: none

TR9130 Obesity & Obesity Related Diseases 2 credits This course focuses on the challenges raised by current international and national trends in obesity. The class is based upon a broad survey of obesity research that focuses on the underlying genetic, biologic and environmental contributors that affect energy balance. The course includes an evaluation of the efficacy of dietary, pharmacologic and surgical approaches for obesity management and examines consequences of obesity on health, medical costs and quality of life as well as its associations with public health policy, the media and environment. Prerequisite: none

TR9139 Entrepreneurial Nutrition (hybrid online/onsite course) 2 credits

In this course students explore their ideas and interests related to nutrition in the context of building a foundation for a food or nutrition-related business. The class includes a variety of approaches to tap into the student's creative entrepreneurial spirit while exploring the underpinnings of a business plan. Guest speakers supplement selected readings and interactive class sessions. Prerequisite: none

Special Topics in Nutrition 1-2

These special topics, offered periodically, explore trends, developments and specific topical areas in human nutrition. Topics vary and are not necessarily offered every year.

TR9511 Special Topics in Nutrition 1 2 credits See description above. Prerequisite: variable according to topic

TR9512 Special Topics in Nutrition 2 2 credits See description preceding TR9511. Prerequisite: variable according to topic

TR9801-9804 Clinic Practicum Elective 2 credits

This course allows nutrition students to gain extra clinical experience beyond what is required for graduation. For other student clinicians, this course provides an opportunity to observe medical nutrition therapy and to participate in collaborative care of patients. The role of the student is decided by the supervisory faculty and varies depending on the student's prior experience. This elective may not count toward clinic requirements for clinic students. Prerequisite: open to all students who have completed at least one nutrition clinic shift (TR6811) or permission of nutrition clinic program coordinator