



**I.W. LANE COLLEGE OF
INTEGRATIVE MEDICINE**

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Winter Park, Florida 32789

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I. ABOUT THE COLLEGE

The I. W. Lane College of Integrative Medicine Foundation, Inc. was incorporated in Florida as a non-profit corporation in December 2002. The Internal Revenue Service recognizes the College as a 501 (c) (3) tax-exempt organization. The primary focus of the College is the education of Naturopathic Physicians.

The College grew out of the vision of its President, Michael B. Miller, MD, NMD, PhD, in cooperation with the Florida Naturopathic Physicians Association and its President, William R. Geldner, ND. Drs. Miller and Geldner were joined in their efforts to found the College by other interested and influential people, particularly Dr. I. W. Lane, noted researcher and proponent of natural medicine. Dr. Lane became a major benefactor of the College, which is named for him.

The College is on the forefront of the effort to reactivate the Florida Board of Naturopathic Medicine and restore a licensure process for Naturopathic Physicians in Florida.

The College's campus is located at 445 North Wymore Road in Winter Park, Florida. It is centrally located in the greater Orlando area and is easily accessible from I-4 and nearby Lee Road. The facility is an attractive two-floor masonry building of 12,040 square feet that includes classrooms, break room, library, medical center, and offices. The building is fully-furnished and equipped as a medical college and includes a very active medical center as a focus of clinical training.

College Mission Statement

The mission of the I. W. Lane College of Integrative Medicine is to educate healthcare practitioners in Naturopathic medicine and other medical sciences, conduct research, and inform the general public regarding natural and integrative medicine.

Licensure

The College is licensed to operate as a degree-granting institution in Florida by the Commission for Independent Education license #3083. The Commission may be contacted as follows for additional information:

Sam Ferguson, Executive Director
Commission for Independent Education
2650 Apalachee Parkway, Suite A
Tallahassee, Florida 32301
(850) 245-3200 · Toll-Free (888) 224-6684

College and Medical Center Vision

I. W. Lane College and Integrative Medical Center is leading the effort in Florida to preserve, restore, and develop the role of natural and integrative medicine in all forms of healthcare — through professional health training, through natural and integrative medical treatments, through research, and through community health projects.

In the College and Medical Center, physicians, healthcare staff, instructors, administrators, and supporters are committed to the following goals:

1. Provide natural medicine and integrative medical treatment, developing individualized medical treatment plans that involve patients in the planning.
2. Organize and deliver special community medical services and projects, to bring natural medicine treatments and solutions to families, children, and the elderly.
3. Train physicians as primary-care Doctors of Naturopathic Medicine.
4. Support the efforts of the Florida Naturopathic Physicians Association (FNPA) and others to restore new Naturopathic Physician licensure in Florida.

5. Provide health science training to a full array of medical support staff:
 - Medical Assistants
 - Certified Nursing Assistants
 - Patient Care Technicians
 - Nurses
6. Offer Master of Science education in herbal and nutritional health.
7. Conduct medical research and project studies in the clinical evaluation of natural medical treatments in such areas as:
 - Persistent musculoskeletal pain
 - Obesity in children and others
 - Chronic conditions and diseases
8. Educate the community through workshops, seminars, and healthcare fairs in natural, herbal, holistic, and integrative medicine.
9. Award scholarships to deserving students committed to natural and integrative medicine.
10. Create opportunities for physicians of all kinds — naturopathic doctors, medical doctors, osteopathic doctors, acupuncture physicians, chiropractors — to work together in teams to integrate and optimize patient treatment and care.
11. Evaluate and test the latest and least invasive medical procedures and diagnostic and treatment equipment.
12. Advocate the philosophy of natural, integrative, and holistic healing to physicians, healthcare workers, patients, and the community in general.
13. Promote Florida as an historic leader in natural medicine and integrative medical care.

II. PROGRAMS

MASTER OF SCIENCE IN HERBAL AND NUTRITIONAL HEALTH (MSHN) PROGRAM

32 Credit Hours

Program Description

The Master of Science in Herbal and Nutritional Health (MSHN) program is a 32-credit hour program designed primarily for healthcare professionals and counselors who want to advance their understanding of traditional and modern herbal and nutritional approaches to natural health maintenance, disease prevention, and support for treatment of disease. It offers students an advanced understanding of the uses of herbs and nutrition to further health or to support the treatment of disease. Students study all major aspects of nutritional and herbal health, including the medicinal uses of food, the physiology of digestion and metabolism, traditional herbal systems, and natural hormone therapies.

Prerequisites

A bachelor's degree from an accredited college or university, including the following minimal courses and credits:

· General Biology with Lab	4 credits
· Additional Science Courses	6 credits
· Behavioral Science Course	3 credits
· College Math Course	3 credits

Preference is given to candidates with cumulative GPAs of 3.0 and higher and to those with biomedical science training.

Program Overview

Semester 1		Credits
Code	Course	Credits
HN 5100	Medicinal Uses of Food	1.0
HN 5101	Physiology of Digestion and Metabolism	3.0
HN 5105	Traditional Herbal Systems	2.0
HN 5106	Biochemistry of Nutrition	3.0
HN 5107	Macro/Micro Nutrients	2.0
HN 5108	Nutritional/Herbal Support I: Organ Systems	3.0
HN 5109	Recognizing Disease Patterns	2.0
		16.0
Semester 2		Credits
HN 5210	Lifestyle and Nutritional Management	2.0
HN 5211	Pharmacology	2.0
HN 5212	Biomedical Research Methods	2.0
HN 5213	Nutritional/Herbal Support II: Disease Applications	3.0
HN 5214	Introduction to Orthomolecular Psychiatry	2.0
HN 5218	Natural Hormone Therapies	2.0
HN 5228	Drug, Herbal, and Nutrient Interactions	2.0
HN 5241	Legal and Ethical Issues	1.0
		16.0

Course Descriptions

HN 5100 Medicinal Uses of Food 1.0 credit

This course is designed to introduce students to various ethnic dietary systems, philosophies and their applications. The primary focus is twofold: (1) Introduce specific dietary guidelines for dealing with disease patterns; (2) Highlight specific foods known for their healing properties.

HN 5101 Physiology of Digestion and Metabolism 3.0 credits

This course provides students with an overview of the anatomical and physiological functions of all glands of the gastrointestinal tract. The focus will be on hormonal and neurological responses governing macro/micro nutrient metabolism, absorption, delivery and elimination.

HN 5105 Traditional Herbal Systems 2.0 credits

This course is designed to provide information regarding the specific indications as determined by scientific research, clinical trials, and/or eclectic and traditional systems, for individual herbs as they have been used in Chinese, Ayurvedic, and Western Herbal Medicine Systems. An introduction to herbal preparations, active constituents, toxicity and dispensing will be provided. Additional topics include quality control and standardization.

HN 5106 Biochemistry of Nutrition 3.0 credits

This course provides an overview of carbohydrate, lipid, and protein structures. It takes an in-depth look into the biochemical pathways involved in their synthesis, breakdown, elimination, and subsequent energy production. Additional material includes an introduction to the function and activity of enzymes and micronutrient co-factors.

HN 5107 Macro/Micro Nutrients 2.0 credits

This course is designed to identify the essential nutrients including proteins/amino acids, carbohydrates, fats/fatty acids, vitamins, and minerals. Within each nutrient class, their functions will be compared and contrasted relative to their effects on tissue expression and health. Toxicity and deficiency manifestations will be detailed in addition

to general dosing guidelines for each nutrient class. Modifications, challenges and contraindications for special needs populations including athletes, children, pregnant women, and the elderly will be incorporated.

HN 5108 Nutritional/Herbal Support I: Organ Systems *3.0 credits*

This course provides a detailed look at nutrients and herbs determined to have a particular tropism and/or delineated effect on a given organ system. Attention will be given to the immune, endocrine, gastrointestinal, cardiovascular, neurological, and genitourinary systems.

HN 5109 Recognizing Disease Patterns *2.0 credits*

This course is designed to provide the student with an overview of various disease patterns, including those of nutrient deficiency and toxicity. Students will identify disease potential for the purpose of referral to or collaboration with a qualified healthcare provider for the optimization of patient wellness.

HN 5210 Lifestyle and Nutritional Management *2.0 credits*

In this course, students will examine the models for counseling and facilitating the implementation of dietary changes and nutrient/herbal supplementation. Environmental aspects of nutrition, chemical additives, and food substitutes will be explored, as students study the relationship between daily activity and health.

HN 5211 Pharmacology *2.0 credits*

This course focuses on the pharmacokinetics of the major classes of drugs for the following systems: cardiovascular, nervous, immune (antibiotics), gastrointestinal and endocrine systems. Specifics regarding drug detoxification, half life, adverse reactions, and contraindications will be discussed.

HN 5212 Biomedical Research Methods *2.0 credits*

This course equips the student with the tools to appropriately screen and decipher the various aspects of nutritional research. In addition, the student will learn how to effectively utilize PubMed and other resources for the purpose of locating data relative to a particular topic.

HN 5213 Nutritional/Herbal Support II: Disease Applications *3.0 credits*

This course provides nutritional and herbal protocols relative to specific disease patterns. Protocols will be based upon both proven research as well as clinical experience.

HN 5214 Introduction to Orthomolecular Psychiatry *2.0 credits*

In this course, students learn the nutritional treatment approaches developed by Dr. Abram Hoffer for dealing with neurological/behavioral conditions such as schizophrenia, ADD, learning disabilities, and mood disorders. Biochemical needs and deficiencies, food allergy avoidance, and the use of megadoses of nutrients are all emphasized as alternative approaches to the conventional use of tranquilizers and other drugs.

HN 5218 Natural Hormone Therapies *2.0 credits*

This course focuses on the role of hormones within the body and how their synthesis and degradation can be modified by various dietary, nutritional, and lifestyle interventions.

HN 5228 Drug, Herbal and Nutrient Interactions *2.0 credits*

Common herb, drug and nutrient interactions, as documented by research or as extrapolated from mechanisms of action, will be discussed with regard to potentiation and antagonism.

HN 5241 Legal and Ethical Issues *1.0 credit*

This course covers the guidelines for establishing effective and appropriate consultant/client relationships. It is designed to equip the student with the means to effectively handle issues such as confidentiality, conflicts of interest, and laws governing healthcare relationships in Florida.

Transfer Credits and Course Sequencing

The Academic Dean (or other academic administrator) may award appropriate graduate transfer credit for courses in the MSHN program, but this is done on a case-by-case basis. However, students who meet the undergraduate prerequisites may be scheduled in any order, since each course is considered to be non-sequential.

Tuition and Fees

- Tuition for each semester is \$3200.00 or \$200.00 per credit hour and payment in-full (per semester or by enrolled credit hours) or by contracted payment schedule must be completed with the Finance Office and/or Financial Aid Office before attendance at classes will be allowed.
- The College *Catalog* and *Student Handbook* (and other written regulations of the College) state the various policies, such as withdrawal procedures, refunds, and program requirements that govern this registration/enrollment.
- Textbooks and other required materials/equipment are not included in tuition and can be purchased at the College Bookstore.

Fee	Amount
Tuition	\$6400
Registration Fee	\$100
Books & Materials	\$395
Other Costs (<i>graduation fee</i>)	\$200
Total Program Cost	\$7095

Withdrawal Policy

A student may withdraw from the program in person or in writing at any time. If withdrawal occurs within three working days of signing an enrollment agreement, there is no financial obligation and all payment is refunded, except the registration fee. Charges for textbooks and required materials/equipment are refunded if returned in new/unused condition. Once a student attends a program class, the following Refund Policy applies.

Refund Policy

The College uses a fair and equitable refund policy that is the same for all students who are terminated or who withdraw from this program.

If withdrawal occurs during weeks one and two of any semester (the drop/add period), all paid tuition is refunded, including charges for textbooks and required materials/equipment if returned in new/unused condition. After the second week, tuition is refunded on a weekly pro rata basis when withdrawal occurs during weeks three through ten. If withdrawal occurs after the tenth week, all tuition for the semester is non-refundable and chargeable, and textbooks and other required materials/equipment may not be returned. Any attendance in class during the week of withdrawal constitutes attendance for the week. All refunds are paid within 30 days of the date the College determines withdrawal occurred. The student has the obligation to notify the College of withdrawal in person or in writing, but the College, in cases of non-notification, makes every effort to determine an equitable withdrawal date.

INTRODUCTION TO HERBAL MEDICINE DIPLOMA PROGRAM

45 Hours

Program Description

The Introduction to Herbal Medicine program is a 45-hour consumer-oriented program, which helps students to categorize herbs based on their main properties and actions on the body. Students will gain a basic understanding of the most common herbal supplements available in health food stores, drug stores, and supermarkets. They will also learn about herb potency, quality control, and food-drug-herbal interactions — with the overall aim of being able to identify and use herbs that promote wellness.

Prerequisites

Candidates for the Introduction to Herbal Medicine program must provide documentation that they are high school graduates (or the equivalent); or have earned at least 12 credits from an accredited college or university; or possess a bachelor's or higher degree from an accredited college or university.

Program Overview

Code	Course	Hours
HM102	Introduction to Herbal Medicine	12
HM105	Plant Constituents	9
HM107	Herbal Preparations	6
HM110	Food, Drug, and Herb Interactions	6
HM112	Quality Issues in Herbal Medicine	3
HM115	Herbal Support for the Immune System	9
		45

Course Descriptions

HM 102 Introduction to Herbal Medicine *12 hours*

This course is designed to help students categorize herbs based on their main properties and actions on the body. Bonus material: alterative, anti-inflammatory, laxative, and nervine herbs.

HM105 Plant Constituents *9 hours*

This course will cover the various plant constituents and their therapeutic uses. Included will be a discussion of standardized extracts versus whole plant extracts. Bonus material: choleric, hepatic, and detoxifying herbs.

HM107 Herbal Preparations *6 hours*

This course will discuss the various ways to prepare and dispense herbal medicines including tinctures, teas, capsules, and salves. Issues regarding therapeutic doses, potency, and availability will be discussed. Bonus material: bitter and carminative herbs.

HM110 Food, Drug, and Herb Interactions *6 hours*

This course will focus on the practical issue of food, drug, and herb interactions. This will provide a basic foundation to ensure the safe use of herbal medicines. Bonus material: toxic, low dose, and hypotensive herbs.

HM112 Quality Issues in Herbal Medicine *3 hours*

This course will enable students how to identify good manufacturing practices. Emphasis will be placed on quality and potency issues. Bonus material: adaptogenic herbs.

HM115 Herbal Support for the Immune System *9 hours*

This course will cover the major immune modulating herbs and their practical applications. Safety and dispensing information will be discussed. Specific antibacterial, anticatarrhal, antiviral, expectorant, antifungal, and anti-parasitic herbs will be discussed.

Note: one hour of each three-hour session will be set aside for bonus material. In the bonus material hour we will discuss 5 different herbs so that at the end of the course students will have learned 75 herbs in greater detail. Quizzes will be based on the information discussed in class about these herbs in addition to the other course material.

Course Sequencing

Though HM 102 Introduction to Herbal Medicine is normally taken first, these courses are not sequential and may be taken in any order.

Tuition and Fees

- Tuition for the program is \$699.00 and payment in full or by contracted payment schedule must be completed with the Finance Office and/or Financial Aid Office before attendance at classes will be allowed.
- The College *Catalog* and *Student Handbook* (and other written regulations of the College) state the various policies, such as withdrawal procedures, refunds, and program requirements that govern this registration/enrollment.
- Textbooks and other required materials/equipment are not included in tuition and can be purchased at the College Bookstore.

Fee	Amount
Tuition	\$699
Registration Fee	\$50
Books & Materials	\$30
Total Program Cost	\$779

Withdrawal Policy

A student may withdraw from the program in person or in writing at any time. If withdrawal occurs within three working days of signing an enrollment agreement, there is no financial obligation and all payment is refunded, except the application fee. Charges for textbooks and required materials/ equipment are refunded if returned in

new/unused condition. Once a student attends a program class, the following Refund Policy applies.

Refund Policy

The College uses a fair and equitable refund policy that is the same for all students who are terminated or who withdraw from the program.

If withdrawal occurs during the first three hours of this program, all paid tuition is refunded, including charges for textbooks and required materials/equipment if returned in new/unused condition. After the fourth hour, tuition is refunded on an hourly pro rata basis when withdrawal occurs up through the first half of the program. If withdrawal occurs after half the program hours have been offered, all tuition for the semester is non-refundable and chargeable, and textbooks and other required materials/equipment may not be returned. All refunds are paid within 30 days of the date the College determines withdrawal occurred. The student has the obligation to notify the College of withdrawal in person or in writing, but the College, in cases of non-notification, makes every effort to determine an equitable withdrawal date.

Grading and Transfer Credit Policy

Because the Introduction to Herbal Medicine program is a consumer-oriented diploma program, its grading system is simply “S” for satisfactory and “U” for unsatisfactory. In order for students to complete the program satisfactorily, they must receive an “S” grade for each course.

Only rarely will the Dean or other designated academic administrator award transfer credit from other programs for any of these courses.

DOCTOR OF NATUROPATHIC MEDICINE PROGRAM

Introduction

Modern Naturopathic Medicine educates students in the same basic medical sciences as conventional medical education. The curriculum is a rigorous four-year medical school program of instruction with extensive clinical training designed to produce primary care doctors. Naturopathic doctors must pass board examinations to demonstrate competency in the medical and clinical sciences.

Naturopathic Medicine uses clinical nutrition, botanical medicine, homeopathic medicine, physical medicine, alternative therapies, and conventional Western medicine for preventive healthcare, health maintenance, and active treatment of disease. Naturopathic Physicians are trained to refer patients to other medical professionals when indicated, and they are prepared to work cooperatively with other physicians. *Naturopathic medicine is about cooperating and complementing, not replacing.*

Mission of the Doctor of Naturopathic Medicine Program

The mission of the Doctor of Naturopathic Medicine Program is to provide quality medical education to qualified candidates and thereby prepare them for the skilled licensed practice of Naturopathic Medicine as primary care physicians — a practice that rests upon a strong foundation of medical knowledge and clinical skills that exemplify the values of Naturopathic philosophy and integrated healthcare.

Goals of the Program

- To admit qualified candidates who have completed pre-med requirements or who are licensed doctors of medicine, osteopathy, or chiropractic.
- To prepare Doctors of Naturopathic Medicine in a full-time program of education that exemplifies superior instruction and clinical training.

- To manifest a program that meets or exceeds the accreditation standards of the Council for Naturopathic Medical Education (CNME).
- To encourage the enrollment of students who represent minority populations.
- To provide high-quality clinical services to under-served populations.
- To graduate Doctors of Naturopathic Medicine who are well trained for the competent and licensed practice of Naturopathic Medicine as primary care providers.
- To encourage graduates to meet the medical needs of areas and populations that are under-served.
- To support and advocate for the practice of Naturopathic Medicine in the public arena.
- To provide graduates with support and resources for their practice of Naturopathic Medicine.

Educational Objectives of the Program

- Graduates will be able to demonstrate the fundamental academic and clinical knowledge, drawn from Naturopathic medical science and general medical science content and experience, that is necessary to practice effective Naturopathic medicine.
- Graduates will be able to competently assess and diagnose patient conditions using all relevant medical diagnostic theory, procedures, and techniques.
- Graduates will be able to formulate effective treatment plans that are indicated by careful diagnosis and that are based upon sound clinical reasoning.
- Graduates will be able to recognize patient conditions that require referral to other healthcare professionals.
- Graduates will be able to articulate the importance of professional ethical behavior.
- Graduates will be able to communicate competently and effectively with patients and other healthcare professionals regarding all aspects of their medical practice.

- Graduates will be knowledgeable of the principles of practice management to include applicable federal and state laws and local ordinances that regulate medical practice.

Note: Currently, the State of Florida is not licensing Naturopathic Physicians. An active and promising effort to restore licensure is underway, but there is no guarantee that licensure will be restored in Florida. See page 28 for other disclosure statements.

Curriculum

Naturopathic Basic Medical Sciences

- Naturopathic Philosophy (Emerges from six underlying principles of healing)
- Clinical Nutrition
- Botanical Medicine/ Systems
- Homeopathic Medicine
- Naturopathic Physical Medicine I
- Naturopathic Physical Medicine II
- Naturopathic Herbal Medicine I
- Naturopathic Herbal Medicine II
- Naturopathic Case Study
- Florida Law and Ethics
- Practice Management

General Basic Medical Sciences

- Anatomy
- Physiology
- Neuro Anatomy
- Neuro Physiology
- Biochemistry
- Pathology
- Microbiology
- Immunology and Allergy
- Histology
- Embryology
- Human Genetics
- Pharmacology
- Behavioral Science

- Laboratory Medicine
- Physical Diagnosis
- Cardiology
- Respiratory
- Renal and Fluids/Electrolytes
- Endocrinology
- Neurology
- Radiology
- Minor Surgery
- Ophthalmology
- Obstetrics
- Orthopedics
- Gynecology
- Pediatrics
- Dermatology

Clinical Medical Sciences

- Integrative Family Medicine I
- Integrative Family Medicine II
- Integrative Family Medicine III
- Internal Medicine
 - Neurology
 - Cardiology
 - Endocrinology
- Obstetrics/Gynecology
- Pediatrics
- Dermatology
- Psychiatry
- Minor Surgery
- Naturopathic Physical Medicine

Four-Year Program

Basic Medical Sciences consists of five 15-week semesters that represent 2,770 clock hours or 176 credit hours. Clinical Medical Sciences consist of three fifteen-week semesters that represent 1,580 clock hours or 52.5 credit hours. Total program is 4,350 hours or 228.5 credits. Fifteen instructional hours equals one semester credit; thirty laboratory hours equals one semester credit.

Semesters One and Two use 5000 numbers. Semesters three and four use 6000 numbers. Semesters Five and Six use 7000 numbers. Semesters Seven and Eight use 8000 numbers.

Semester One

<i>Code</i>	<i>Course</i>	<i>Hours</i>	<i>Credits</i>
5001	Gross Anatomy	250	8.3
5002	Medical Physiology	150	10.0
5003	Histology	20	1.3
5004	Embryology	20	1.3
5005	Naturopathic Philosophy	80	5.3
5012	Neuro Anatomy	60	4.0
		580	30.2

Semester Two

<i>Code</i>	<i>Course</i>	<i>Hours</i>	<i>Credits</i>
5106	Biochemistry	125	8.3
5107	Microbiology	100	6.7
5108	Medical Genetics	60	4.0
5109	Immunology and Allergy	40	2.7
5110	Behavioral Sciences	40	2.7
5111	Clinical Nutrition	160	10.7
5113	Neuro Physiology	75	5.0
		600	40.1

Semester Three

<i>Code</i>	<i>Course</i>	<i>Hours</i>	<i>Credits</i>
6012	Pharmacology	120	8.0
6013	General Pathology	125	8.3
6014	Laboratory Medicine	50	3.3
6015	Respiration	10	0.7
6016	Neurology	20	1.3
6017	Renal and Fluid/Electrolytes	20	1.3
6018	Endocrinology	20	1.3

6019	Radiology	50	3.3
6020	Dermatology	20	1.3
6021	Psychiatry	40	2.7
6022	Naturopathic Herbal Medicine I	60	4.0
		535	35.5

Semester Four

<i>Code</i>	<i>Course</i>	<i>Hours</i>	<i>Credits</i>
6123	Gastroenterology	20	1.3
6124	Hematology	15	1.0
6125	Oncology	30	2.0
6126	Orthopedics	20	1.3
6127	Otorhinolaryngology	20	1.3
6128	Cardiology	30	2.0
6129	Physical Diagnosis	75	5.0
6130	Ophthalmology	15	1.0
6131	Minor Surgery	75	5.0
6132	Obstetrics	20	1.3
6133	Gynecology	40	2.7
6134	Pediatrics	60	4.0
6135	Naturopathic Physical Medicine I	120	8.0
		540	35.9

Semester Five

<i>Code</i>	<i>Course</i>	<i>Hours</i>	<i>Credits</i>
7036	Botanical Medicine/ Systems	150	10.0
7037	Homeopathic Medicine	60	4.0
7038	Naturopathic Herbal Medicine II	60	4.0
7039	Naturopathic Physical Medicine II	140	9.3
7040	Naturopathic Case Studies	60	4.0
7041	Florida Law and Ethics	25	1.7
7042	Practice Management	20	1.3
		515	34.3

Semester Six — Clinical

<i>Code</i>	<i>Rotation</i>	<i>Hours</i>	<i>Credits</i>
7143	Integrative Family Medicine I	250	8.3
7144	Internal Medicine: Neurology, Cardiology & Endocrinology	250	8.3
		500	16.6

Semester Seven — Clinical

<i>Code</i>	<i>Course</i>	<i>Hours</i>	<i>Credits</i>
8002	Obstetrics/Gynecology	80	2.7
8003	Pediatrics	60	2.0
8004	Dermatology	40	1.3
8005	Integrative Family Medicine II	250	8.3
8006	Naturopathic Physical Medicine	100	3.3
		530	17.6

Semester Eight — Clinical

<i>Code</i>	<i>Course</i>	<i>Hours</i>	<i>Credits</i>
8107	Minor Surgery	110	3.7
8108	General Psychiatry	40	1.3
8109	Integrative Family Medicine III	400	13.3
		550	18.3

**Medical Doctors with
Advanced Standing**

Semester One 270 hours

<i>Code</i>	<i>Course</i>	<i>Hours</i>
Naturopathic Philosophy and Treatment		80
5005A	History of Naturopathic Medicine	15
5005B	Philosophy of Naturopathic Medicine	20
5005C	Philosophy of Functional Medicine	15
5005D	Complementary and Alternative Medicine	30

Semester Two 270 hours

<i>Code</i>	<i>Course</i>	<i>Hours</i>
Naturopathic Physical Medicine I		120
6135A	Musculoskeletal Dysfunction	26
6135B	Assessment & Palpation	30
6135C	Neuromuscular techniques Strain/Counterstrain	8
6135D	Muscle energy stretching	4
6135E	Osteopathic evaluation	30
6135F	Manipulation Cervical	4
6135G	Manipulation Thoracic	4
6135H	Manipulation Lumbar	4
6135I	Manipulation soft tissue & joints	4
6135J	Medical Massage Therapy	6

Semester Three 270 hours

<i>Code</i>	<i>Course</i>	<i>Hours</i>
Naturopathic Physical Medicine II		70
7039A	Fundamentals of electric currents, TENS, EMS, Galvanic	10
7039B	Hydrotherapy, cold friction rub, ice massage, ultrasound	10
7039C	Hyperthermia: immersion bath/ steam, hot packs, infrared	4
7039D	Diathermy, Wet sheet pack	4
7039E	Colon Irrigation	8
7039F	Russian stimulation, ultra violet light, local contrast	4
7039G	Prolotherapy	20
7039H	Practice	10

Semester Two		260 hours
<i>Code</i>	<i>Course</i>	<i>Hours</i>
Botanical Medicine/ Systems		140
7036A	Pharmacognosy	15
7036B	Botanical Preparations	8
7036C	Biochemical Constituents	8
7036D	Botanical Identification	8
7036E	Therapeutic Actions and Terminology	4
7036F	Botanical Harvesting and Storage	4
7036G	Botanical Dosing and Prescription Writing	4
7036H	Western Herbal Energetics	2
7036I	Botanicals as related to the Western model	
	· Cerebrovascular	2
	· Ear/Eyes/Nose/Throat	4
	· Cardiovascular	4
	· Respiratory	4
	· GI	4
	· Hepatic	2
	· Renal	2
	· OB/GYN	4
	· Proctology	2
	· Endocrine	2
	· Immune	2
	· Musculoskeletal	2
	· Dermatological	4
	· Alliterative	1
7036J	Basic Nutrition: Signs & Symptoms of Dietary, Deficiency & Overdose, Diet History Taking Skills, Assessing Food Intolerances, Eating Disorders	15
7036K	Herbal Toxicology and Contraindications	4
7036L	Herbal/ Pharmaceutical Interactions	4
7036M	IM & IV Nutrients	25

<i>Code</i>	<i>Course</i>	<i>Hours</i>
Naturopathic Herbal and Nutritional Medicine		120
<i>These courses identify the common herbal Naturopathic treatments and diagnostics.</i>		
6022A	Naturopathic Herbal Medicine I	30
6022B	Naturopathic Nutrition	75
6022C	Naturopathic Herbal Medicine II	15

Semester Three		460 hours
<i>Code</i>	<i>Course</i>	<i>Hours</i>
7143	Integrative Family Medicine I (Clinical) * 15 weeks	*400
7040	Naturopathic Case Study (Clinical)	60

Semester Four		420 hours
<i>Code</i>	<i>Course</i>	<i>Hours</i>
8005	Integrative Family Medicine II (Clinical) * 15 weeks	*400
7041	Florida Law and Ethics	20

* The typical number of hours in a 15-week clinical rotation is 400.

Chiropractic Physicians with Advanced Standing

Semester One 355 hours

<i>Code</i>	<i>Course</i>	<i>Hours</i>
Naturopathic Philosophy and Treatment		80
5005A	History of Naturopathic Medicine	15
5005B	Philosophy of Naturopathic Medicine	20
5005C	Philosophy of Functional Medicine	15
5005D	Complementary and Alternative Medicine	30

Code *Course* *Hours* **Pharmacology** **120**

6012A	Introduction to Pharmacology: Absorption, Distribution, Elimination of Drugs, Pharmacokinetics and Drug Receptors	
6012B	Drugs Affecting the Nervous System: Autonomic Nervous System, Cholinergic Agonist, Cholinergic Antagonists, Adrenergic Agonists, Adrenergic Antagonists	
6012C	Drugs Affecting the Central Nervous System: Treatment of Parkinson's Disease, Anxiolytic and Hypnotic Drugs, CNS Stimulants, Anesthetics, Antidepressant Drugs, Neuroleptic Drugs, Opioid Analgesics and Antagonists, Drugs to treat Epilepsy	
6012D	Drugs Affecting the Cardiovascular System: Treatment of Congestive Heart Failure, Antiarrhythmic Drugs, Anti-anginal Drugs, Antihypertensive Drugs, Drugs Affecting Blood, Anti-hyperlipidemic Drugs	
6012E	Drugs Affecting Other Organ Systems: Drugs Affecting the Respiratory System, Diuretic Drugs, Gastrointestinal and Anti-emetic Drugs, Hormones of the Pituitary and Thyroid, Insulin and Oral Hypoglycemic Drugs, Steroid Hormones	
6012F	Chemotherapeutic Drugs: Principles of Antimicrobial Therapy, Folate Antagonists, Inhibitors of Cell Wall	

Synthesis, Protein Synthesis Inhibitors, Quinolones and Urinary Tract Antiseptics, Anti-mycobacterial Drugs, Antifungal Drugs, Antiprotozoal Drugs, Anthelmintic Drugs, Antiviral Drugs, Anticancer Drugs

6012G Anti-Inflammatory Drugs and Autacoids: Anti-Inflammatory Drugs, Autacoids and Autacoid Antagonists

6012H Mathematics of Drug Dosage: Roman Numerals, Fractions, Decimals, Percentage, Proportion, Fahrenheit and Celsius, Systems of Measurement, Drug Dosage for Children, Drug Dosage in Standardized Units

6012I Herbal Therapies and Drug-Herb Interactions

6012J Immunizations: Florida Department of Health Standards

6012K Drug Therapy in End-of-Life Care: Issues to Resolve in End-of-Life Care, Pain Control, Nutrition and Hydration, Hospice Care, Goals, Drug Selection

6012L Drug Legislation and Drug Standards: DEA, FDA, Florida Pharmacy Law

6012M Substance Abuse: Seven Signs of Possible Drug Involvement, Dependence on Narcotics, Sedative-Hypnotic Abuse, Cocaine Abuse, Alcohol Abuse

Code *Course* *Hours* **Minor Surgery** **60**

6131A	Sterile Field, Surgical Scrub, Pre-Op and Post-Op care, Surgical Instruments	
6131B	Operations on Skin and Subcutaneous tissue; Incision of the Skin and Subcutaneous Tissue, Aspiration of Abscess, Hematomas, Seromas of the Nail, Skin or Subcutaneous Tissue, Incision of Pilonidal Sinus or Cyst, Other Incision with Drainage of Skin and Subcutaneous tissue, Incision with Removal of Foreign Body from Skin and Subcutaneous, Exploration of Sinus tracts of Skin	
6131C	Debridement of Wound Infection, or Burn, Removal of Nailbed, or Nail fold, Ligation of Dermal Appendage	

- 6131D Removal and biopsy of Moles, Warts, Cysts; and destruction of tissue by cauterization, cryosurgery, fulguration, or laser beam
- 6131E Suture of Skin and subcutaneous tissue; Scalp, Suturing of Incisions lacerations and Excisions, minor wounds
- 6131F Lingual frenotomy, Labial frenotomy, Excision or Destruction of Lesion or Tissue of Scrotum and Penis (eg warts), Hymenotomy
- 6131G Destruction of Benign Lesions of Cervix by Cryosurgery, Excision or Destruction of Benign Lesion of Vagina, Vulva and Perineum
- 6131H Incision of Perianal Abscess, Excision of Skin tags
- 6131I Procedures on Hemorrhoids, Injection of Hemorrhoids, Cauterization of Hemorrhoids, Destruction of Hemorrhoids by Cryotherapy, Ligation of Hemorrhoids, Evacuation of Thrombosed Hemorrhoids
- 6131J Episiotomy, including other Repair of Perineum, Vagina and Vulva
- 6131K Circumcision in newborns
- 6131L Surgical follow-up and care

Code Course Hours
Introduction to Medicine & Physical Diagnosis I 95

- 6129A Symptomatic Care Pending Diagnosis: Pain, Nausea and Vomiting, Gaseousness and Indigestion, Acute Infectious Diarrhea, Constipation, Fever, Cough, Hoarseness and Laryngitis, Insomnia, Pruritus, Tinnitus
- 6129B Infectious Diseases: Management of HIV, Amebiasis, Bacteremia and Septicemia, Brucellosis, Conjunctivitis, Varicella (chickenpox), Cholera, Diphtheria, Food-Borne Illness, Necrotizing Skin and Soft Tissue Infections, Influenza, Leishmaniasis, Leprosy, Malaria, Acute Bacterial Meningitis, Infectious Mononucleosis, Mumps, Plague, Psittacosis, Q Fever, Rabies, Rat-Bite Fever, Relapsing Fever, Lyme Disease, Rocky

Mountain Spotted Fever, Rubella and Congenital Rubella, Measles (Rubeola), Tetanus, Toxoplasmosis, Trichinellosis, Tularemia, Nontyphoidal Salmonellosis, Typhoid Fever, Typhus Fever, Whooping Cough (pertussis), Strep Throat, Sinus Infections, Ear Infections

- 6129C Respiratory System: Acute Respiratory Failure, Atelectasis, Chronic Obstructive Pulmonary Disease, Primary Lung Cancer, Coccidioidomycosis, Histoplasmosis, Blastomycosis, Pleural Effusions and Empyema Thoracis, Primary Lung Abscess, Otitis Media, Acute Bronchitis, Bacterial Pneumonia, Viral Pneumonias, Legionnaires' Disease and Pontiac Fever, Pulmonary Embolism, Sarcoidosis, Silicosis, Hypersensitivity Pneumonitis, Sinusitis, Streptococcal Pharyngitis, Tuberculosis and other Mycobacterial Diseases
- 6129D Cardiovascular System: Acquired Disease of the Aorta, Angina Pectoris, Cardiac Arrest, Sudden Cardiac Death, Atrial Fibrillation, Premature Beats, Heart Block, Tachycardia, Congenital Heart Disease, Mitral Valve Prolapse, Congestive Heart Failure, Infectious Endocarditis, Hypertension, Acute Myocardial Infarction, Coronary Rehabilitation, Pericarditis, Peripheral Arterial Disease, Deep Vein Thrombosis of the lower extremities
- 6129E Blood and Spleen: Aplastic Anemia, Iron Deficiency Anemia, Autoimmune Hemolytic Anemia, Nonimmune Hemolytic Anemia, Pernicious Anemia and other Megaloblastic Anemias, Thalassemia, Sickle Cell Anemia, Sickle Cell Disease, Neutropenia, Hemolytic Disease of the New Born (Fetal Isoimmunization), Hemophilia and related conditions, Platelet-Mediated Bleeding Disorders, Disseminated Intravascular Coagulation, Thrombotic Thrombocytopenic Purpura, Hemolytic Uremic Syndrome, Hemochromatosis, Hodgkin's Disease, Chemotherapy, Acute Leukemia in Adults, Acute Leukemia in Childhood, Chronic Myeloid Leukemia,

		Semester Two	365 hours
		<i>Code</i>	<i>Course</i>
		<i>Hours</i>	
	Non-Hodgkin's Lymphoma, Cutaneous T Cell Lymphoma, Multiple Myeloma, Polycythemia Vera, Prophyrias, Therapeutic use of Blood Components, Adverse Reactions to Blood Transfusion		
6129F	Digestive System: Cholecystitis and Cholelithiasis, Cirrhosis, Bleeding Esophageal Varices, Dysphagia and Esophageal Obstruction, Diverticula of the Alimentary Tract, Ulcerative Colitis, Crohn's Disease, Irritable Bowel Syndrome, Hemorrhoids, Anal Fissure, Anorectal Abscess and Fistula, Gastritis, Acute and Chronic Hepatitis, Malabsorption Syndromes, Acute Pancreatitis, Chronic Pancreatitis, Peptic Ulcer Disease, GERD, Tumors of the Stomach, Tumors of the Colon and Rectum, Intestinal Parasites		
6129G	Metabolic Disorders: Diabetes Mellitus in Adults, Diabetes Mellitus in Children and Adolescents, Diabetic Ketoacidosis, Hyperuricemia and Gout, Hyperlipoproteinemia, Obesity, Vitamin Deficiency, Vitamin K Deficiency, Osteoporosis, Paget's Disease of Bone, Parenteral Nutrition in Adults, Parental Fluid Therapy for Infants and Children		
6129H	Endocrine System: Acromegaly, Adrenocortical Insufficiency, Cushing's Syndrome, Diabetes Insipidus, Goiter, Hyperparathyroidism and Hypoparathyroidism, Primary Aldosteronism, Hypopituitarism, Hyperprolactinemia, Hypothyroidism, Hyperthyroidism, Thyroid Cancer, Pheochromocytoma, Thyroiditis		
		Introduction to Medicine & Physical Diagnosis II	
			105
		6129I	Urogenital Tract: Bacterial Infections of the Urinary Tract in Males, Bacterial Infections in the Urinary Tract in Females, Bacterial Infections of the Urinary Tract in Girls, Childhood Enuresis, Urinary Incontinence, Epididymitis, Primary Glomerular Diseases, Pyelonephritis, Genitourinary Trauma, Benign Prostatic Hyperplasia, Prostatitis, Acute Renal Failure, Chronic Renal Failure, Genitourinary Tumors, Urethral Stricture, Renal Calculi
		6129J	Sexually Transmitted Diseases: Chancroid, Gonorrhea, Nongonococcal Urethritis in Men, Granuloma Inguinale, Lymphogranuloma Venerum (LGV), Syphilis, Herpes, Trichomonas Vaginalis, Yeast, Chlamydia
		6129K	Diseases of Allergy: Anaphylaxis and Serum Sickness, Asthma in Adults and Adolescents, Asthma in Children, Allergic Rhinitis due to Inhalant Factors, Allergic Reactions to Drugs, Allergic Reactions to Insect Stings
		6129L	Diseases of the Skin: Acne Vulgaris and Rosacea, Hair Disorders, Cancer of the Skin, Papulosquamous Diseases, Connective Tissue Diseases, Cutaneous Vasculitis, Diseases of the Nails, Keloid, Warts (Verruca Vulgaris), Nevi, Malignant Melanoma, Premalignant Lesions of the Skin, Bacterial Diseases of the Skin, Viral Diseases of the Skin, Parasitic Diseases of the Skin, Superficial Fungal Infections of the Skin, Diseases of the Mouth, Venous (Stasis) Ulcer, Atopic Dermatitis, Erythema Multiform and other Erythematous Disorders, Bullous Disorders, Contact Dermatitis, Skin Diseases of Pregnancy, Pruritus Ani and Vulvae, Urticaria and Angioedema, Pigmentary Disorders of the Skin, Occupational Dermatitis, Sunburn and Photosensitivity
		6129M	Nervous System: Brain Abscess, Alzheimer's Disease, Parenchymatous Brain Hemorrhage, Focal Ischemic

	Cerebrovascular Disease, Rehabilitation of Persons with Stroke, Epilepsy in Adolescents and Adults, Epilepsy in Infants and Children, Gilles de la Tourette Syndrome, Headache, Episodic Vertigo, Ménière's Disease, Viral Meningitis and Encephalitis, Reye's Syndrome, Multiple Sclerosis, Myasthenia Gravis, Trigeminal Neuralgia, Optic Neuritis, Glaucoma, Bell's Palsy, Parkinson's Disease, Peripheral Neuropathies, Acute Head Injury in Adults and Children, Brain Tumors
6129N	Locomotor System: Rheumatoid Arthritis, Juvenile Rheumatoid Arthritis, Ankylosing Spondylitis, Temporomandibular Disorders, Bursitis, Myofascial Pain and Fibromyalgia, Osteoarthritis, Polymyalgia Rheumatica and Giant Cell Arteritis, Osteomyelitis, Common Sports Injuries
6129O	Obstetrics and Gynecology: Antepartum Care, Ectopic Pregnancy, Vaginal Bleeding in Late Pregnancy, Hypertensive Disorders of Pregnancy, Obstetric Anesthesia, Postpartum Care, Neonatal Resuscitation, Care of High-Risk Neonate, Normal Infant Feeding, Disorders of the Breast, Endometriosis, Dysfunctional Uterine Bleeding, Amenorrhea, Dysmenorrhea, Premenstrual Syndrome, Menopause, Vulvovaginitis, Toxic Shock Syndrome, Chlamydia, Trichomonas Infection, Pelvic Inflammatory Disease, Leiomyomas of the Uterus, Endometrial Cancer, Cancer of the Uterine Cervix, Neoplasms of the Vulva, Thrombophlebitis in Obstetrics and Gynecology, Conception
6129P	Psychiatric Disorders
6129Q	Physical and Chemical Injuries
6129R	Reference Values for Interpretation of Laboratory Test
6129S	Pediatrics

<i>Code</i>	<i>Course</i>	<i>Hours</i>
Naturopathic Herbal and Nutritional Medicine		
<i>These courses identify the common herbal Naturopathic treatments and diagnostics.</i>		
6022A	Naturopathic Herbal Medicine I	30
6022B	Naturopathic Nutrition	75
6022C	Naturopathic Herbal Medicine II	15
		120
<i>Code</i>	<i>Course</i>	<i>Hours</i>
Botanical Medicine/Systems		
7036A	Pharmacognosy	15
7036B	Botanical Preparations	8
7036C	Biochemical Constituents	8
7036D	Botanical Identification	8
7036E	Therapeutic Actions and Terminology	4
7036F	Botanical Harvesting and Storage	4
7036G	Botanical Dosing and Prescription Writing	4
7036H	Western Herbal Energetics	2
7036I	Botanicals as related to the Western model:	
	· Cerebrovascular	2
	· Ear/Eyes/Nose/Throat	4
	· Cardiovascular	4
	· Respiratory	4
	· GI	4
	· Hepatic	2
	· Renal	2
	· OB/GYN	4
	· Proctology	2
	· Endocrine	2
	· Immune	2
	· Musculoskeletal	2
	· Dermatological	4
	· Alliterative	1
7036J	Basic Nutrition: Signs & Symptoms of Dietary Deficiency & Overdose, Diet History Taking Skills, Assessing Food Intolerances, Eating Disorders	15
7036K	Herbal Toxicology and Contraindications	4
7036L	Herbal/Pharmaceutical Interactions	4
7036M	IM & IV Nutrients	25
		140

Semester Three		460 hours
<i>Code</i>	<i>Course</i>	<i>Hours</i>
7143	Integrative Family Medicine I (Clinical) *15 weeks.	*400
7040	Naturopathic Case Study (Clinical)	60

Semester Four		420 hours
<i>Code</i>	<i>Course</i>	<i>Hours</i>
7041	Florida Law and Ethics	20
8005	Integrative Family Medicine II (Clinical) *15 weeks	*400

* The typical number of hours in a 15-week clinical rotation is 400.

Course Prerequisites and Sequencing

Except for those with prior medical training, course scheduling follows normal medical school course sequencing from semester to semester with each semester's courses acting as the prerequisites for subsequent semester courses.

Therefore, courses coded at the 5000 level (first-semester courses) are prerequisites for those courses at the 5100 level (second-semester courses). Courses coded at the 5100 level are prerequisites for courses at the 6000 level (third-semester courses) and so on through the 8100 level (eighth-semester courses).

The Academic Dean may grant permission for a student to be scheduled in related courses concurrently, or allow non-sequential scheduling of courses for transfer students, licensed physicians, and others with previous training.

Course Descriptions

Basic Medical Sciences

The NMD program is under continuous review and modifications are periodically introduced to assure that a comprehensive and coherent presentation of Basic Medical Sciences is afforded to NMD candidates.

5001 Gross Anatomy 8.3 credits

In labs and lectures, the gross morphology of the human body is systematically presented. Emphasis is on concepts of organ morphology and topography necessary for understanding the spread of diseases, diagnostic procedures and surgical therapy.

Subdivisions include:

- Head and Neck
- Upper and Lower Extremities
- Thorax and Abdomen

5002 Medical Physiology 10.0 credits

In this course, students learn the general principles and properties of living cells and the characteristics of the organ systems. Chemical and physical factors and processes that are involved in the life functions of the human body are emphasized along with special emphasis on the clinical correlation between system dysfunction as a basis for the pathogenesis of the diseased state. Subdivisions include:

- **Neuromuscular Physiology:**
This subdivision will emphasize synaptic transmission; skeletal muscle (excitation of the contractile mechanism); molecular basis of muscle contraction; and regulation of tension development, exercise, and smooth muscle.
- **Respiratory Physiology:**
Students learn fundamentals and mechanics of ventilation, diffusion, and pulmonary blood flow. Gas transport in blood and regulation of ventilation in the whole patient will be emphasized throughout the course with correlated clinical applications.

- **Cardiovascular Physiology:**
Bioelectric fundamentals of electrocardiology (ECG), hemodynamics, cardiac pump, regulation of cardiac output are main topics of study. Arterial blood regulation and regional distribution of blood flow and cardiovascular function in hemorrhage will be emphasized.
- **Renal Physiology (Fluids and Electrolytes):**
Study includes an overview of the functions of the kidneys, renal blood flow and glomerular filtration, the proximal tubule, renal clearance, anti-diuretic hormone (ADH) and osmoregulation, distal nephron and osmoregulation, maintenance of body sodium content and volume. Hydrogen ion, homeopertubations of (H⁺) and their compensation, acid-base balance, temperature regulation, and congestive heart failure are key areas of emphasis.
- **Endocrine Physiology:**
Students study the following topics: introduction to endocrinology, hypothalamus-pituitary system, thyroid function and its regulation with formation and biological activity of thyroid hormones, release and regulation thyroid hormones, adrenal cortex and its function, endocrine regulation metabolism, regulation of calcium and phosphate metabolism and endocrine regulation of growth.
- **Gastrointestinal Physiology:**
Topics include gastrointestinal endocrinology and salivary secretion; gastric secretion; pancreatic and biliary (liver) secretions, intestinal digestion, absorption and secretion; gastrointestinal motility and fluid compartments.

5003 Histology *1.3 credits*

This broadly based course covers the light and electron microscopic study of the structure of cells, tissues and organs in relation to their function. It is designed to (a) familiarize students with cell and tissue structure as a correlate to their study of biochemistry and physiology, and (b) to provide them with a working knowledge of normal light microscopic morphology as background for later study of pathology. Lectures will cover cells and their specific tissues. Descriptions of structure of various organs will be correlated with their physiological functions. Laboratories will give students an opportunity to study the light microscopic structure of normal cells, tissue, and organs — and to review concepts covered in the lectures in small groups with individual instructors.

5004 Embryology *1.3 credits*

This course involves the study of human development during the embryonic state. Emphasis is placed on the analysis of sequential development of embryos, tissues and organs through graded stages.

5005 Naturopathic Philosophy *5.3 credits*

Naturopathic Medicine is a distinctively natural approach to health and healing that recognizes the integrity of the whole person. Naturopathic Medicine is heir to the vitalistic tradition of medicine in the Western world, emphasizing the treatment of disease through the stimulation, enhancement, and support of the inherent healing capacity of the person. Methods of treatments are chosen to work with the patient's vital force, respecting the intelligence of the natural healing process. The practice of Naturopathic Medicine emerges from six underlying principles of healing. These principles are based on the objective observation of the nature of health and disease, and are continually re-examined in light of scientific analysis. It is these principles that distinguish the profession from other medical approaches:

- **The healing power of nature:**
The body has the inherent ability to establish, maintain, and restore health. The healing process is ordered and intelligent; nature heals through the response of the life force. The physician's role is to facilitate and augment this process, to act to identify and remove obstacles to health and recovery, and to support the creation of a healthy internal and external environment.
- **Identify and treat the cause:**
Illness does not occur without cause. Underlying causes of disease must be discovered and removed or treated before a person can recover completely from illness. Symptoms are expressions of the body's attempt to heal, but are not the cause of disease. Symptoms, therefore, should not be suppressed by treatment. Causes may occur on many levels including physical, mental, emotional, and spiritual. The physician must evaluate fundamental underlying causes on all levels, directing treatment at root causes rather than at symptomatic expression.
- **First, do no harm:**
Illness is a purposeful process of the organism. The process of healing includes the generation of symptoms that are, in fact, an expression of the life force attempting to heal itself. Therapeutic actions should be complementary to and synergistic with this healing process. The physician's actions can support or antagonize the actions of the *vis medicatrix naturae*. Therefore, methods designed to suppress symptoms without removing underlying causes are considered harmful and are avoided or minimized.
- **Treat the whole person:**
The multi-factorial nature of health and disease is respected. Health and disease are conditions of the whole organism, a whole involving a complex interaction of physical, spiritual, mental, emotional, genetic, environmental, social, and other factors. The physician must treat the whole person by taking all of these factors into account. The harmonious functioning of all aspects of the individual is essential to recovery from and prevention of disease, and requires a personalized and comprehensive approach to diagnosis and treatment.

- **The physician as teacher:**
Beyond an accurate diagnosis and appropriate prescription, the physician must work to create a healthy, sensitive interpersonal relationship with the patient. A cooperative doctor-patient relationship has inherent value. The physician's major role is to educate and encourage the patient to take responsibility for health. The physician is a catalyst for healthful change, empowering and motivating the patient to assume responsibility. It is the patient, not the doctor, who ultimately creates or accomplishes healing. The physician must strive to inspire hope as well as understanding. The physician must also make a commitment to his/her personal spiritual development in order to be a good teacher.
- **Prevention is the best "cure:"**
The ultimate goal of any healthcare system should be prevention. This good is accomplished through education and promotion of life-habits that create good health. The physician assesses risk factors and hereditary susceptibility to disease and makes appropriate interventions to avoid further harm and risk to the patient. The emphasis is on building health rather than on fighting disease.

5012 Neuro Anatomy *4 credits*

Students learn the organizing principles of human neural structure and the major anatomical features of the brain and spinal cord. They learn how an in-depth neuroanatomical perspective applies to the clinical situation.

5106 Biochemistry *8.3 credits*

Through a comprehensive presentation of the chemistry of living tissues, emphasizing basic concepts of chemical reactions peculiar to living tissues, students learn about metabolic pathways and regulation, intermediary metabolism of carbohydrates, lipids and nitrogenous compounds. Detail application of this information to the areas of nutrition, clinical chemistry and diagnostics are demonstrated in the clinical evaluation of the patient.

5107 Microbiology *6.7 credits*

This course emphasizes the role of living agents in health and disease, a broad general knowledge of microbiology in medicine. Topics include bacterial physiology and genetics, introductory animal

virology, the microorganisms of medical importance (including bacteria and animal viruses but not medical parasitology), and the introductory pathophysiology and epidemiology of infectious disease. Laboratory involves diagnostic methodologies and techniques.

5108 Medical Genetics *4.0 credits*

The principles of medical genetics are applied to the diagnosis and management of patients with genetic disease through lectures, clinical presentations and demonstrations. Single gene (Mendelian), chromosome, and multifactorial disorders — especially those encountered more commonly — are discussed in detail. Students will learn the application of genetics to the pathogenesis of human disease inheritance and the role of these mechanisms in clinical Naturopathic medicine.

5109 Immunology *2.7 credits*

The course is designed specifically for medical students wishing to acquire in-depth knowledge of basic immunology. Subjects will include lymphocytes: classes, subsets and their properties; lymphocyte activation and differentiation; receptors; regulatory interactions; tolerance; genetics; and macrophage biology.

5110 Behavioral Science *2.7 credits*

This course acquaints students with the multi-varied bio-psychosocial determinants of behavior. Students learn to approach patients logistically. Psychopathology is considered from a variety of social, behavioral, and philosophic perspectives. Throughout, the care, treatment, and management of the psychiatric patient are emphasized.

5111 Clinical Nutrition *10.7 credits*

Food as the best medicine is the cornerstone of Naturopathic practice. Students learn how many medical conditions can often be treated more effectively with foods and nutritional supplements than by other means, with fewer complications and side effects. Students learn to use dietetics, natural hygiene, fasting, and nutritional supplementation.

5113 Neuro Physiology *5.0 credits*

Students study the functional as well as structural aspects of the central nervous system, especially in terms of brain and spinal cord operations — and their relation to sensation and the entire nervous system in general. This course emphasizes the clinical and structural aspects of neurological function and dysfunction.

6012 Pharmacology *8.0 credits*

Students learn how to evaluate drugs for use in clinical practice. The most widely used drugs in medical practice are studied in this course, emphasizing the basics of practical therapeutics. Metabolism, interactions and adverse effects of drugs are considered from the practical, clinical point of view. The course also focuses on the distinction between the pathophysiological and empirical uses of drugs.

6013 Pathology *8.3 credits*

This course provides the foundation for understanding the basic mechanism of disease, which underlies specific disease processes that are studied in pathophysiology. Areas covered include: cellular injury, inflammatory response, cell depositions, circulatory disturbances and neoplasia. Students survey specific diseases at the tissue and organ levels and selected topics in systemic pathology, with particular emphasis on human surgical material such as biopsies of the kidney, liver lymph nodes, and so on — the foundation upon which clinical medicine is based.

6014 Laboratory Medicine *3.3 credits*

Students study different methods of testing, diagnostic test selection, test interpretation, and clinical application.

Introduction To Medicine

These courses are marked with asterisks, and have three principal objectives: First, to train students in accepted technical methods so that they may employ these fundamental procedures appropriately when examining patients. Second, to train students in the principles of diagnosis through the study of disease in the human being, including its treatment and prevention. Third, to train students to consider and study the special needs of their patients as particular human beings and their particular reactions to the diseases from which they suffer.

6015 Respiration* *0.7 credits*

This course is designed for medical students to acquire in-depth knowledge in the diagnosis and treatment of diseases and disorders of the lungs or respiratory system.

6016 Neurology* *1.3 credits*

This course is designed for medical students to acquire in-depth knowledge in the diagnosis and treatment of diseases and disorders of the nervous system, brain, and spine.

6017 Fluids/Electrolytes/Renal* *1.3 credits*

This course is designed for medical students to acquire in-depth knowledge in the diagnosis and treatment of diseases and disorders of the kidney, fluid-electrolyte balance of the body.

6018 Endocrinology* *1.3 credits*

This course is designed for medical students to acquire in-depth knowledge in the diagnosis and treatment of diseases and disorders of the endocrine system, structures and function.

6019 Radiology* *3.3 credits*

This course is designed for medical students to acquire in-depth knowledge involving both pathology and radiology and concerned with the effects of ionizing radiation on body tissues, the student will learn and practice techniques used to take X-rays in the College's medical center.

6020 Dermatology* *1.3 credits*

This course is designed for medical students to acquire in-depth knowledge in the diagnosis and treatment of diseases and disorders of skin, including its anatomic, physiologic, and pathologic characteristics.

6021 Psychiatry* *2.7 credits*

This course is designed for medical students to acquire in-depth knowledge in the diagnosis and treatment of diseases and disorders of psychiatry, i.e., take and evaluate psychological history, know components of effective patient-physician interactions, understand ethical and legal principles of counseling, deal with life span/development issues, crisis intervention, recognize and refer for psychiatric conditions.

6022 Naturopathic Herbal Medicine I *4.0 credits*

This course is designed for medical students to acquire in-depth knowledge in prescribed plant and animal substances – and to know actions, indications, contra-indications, toxicity, interactions, and side effects of category I and II herbal substances.

7038 Naturopathic Herbal Medicine II *4.0 credits*

This course is designed for medical students to acquire in-depth knowledge in prescribed plant and animal substances – and to know actions, indications, contra-indications, toxicity, interactions, and side effects of category III herbal substances, including treatment with topical medicines and botanical preparations (and associated Latin nomenclature).

6123 Gastroenterology* *1.3 credits*

This course is designed for medical students to acquire in-depth knowledge in the diagnosis and treatment of diseases and disorders of the gastrointestinal tract, including the stomach, intestines, gallbladder, and bile duct.

6124 Hematology* *1.0 credits*

This course is designed for medical students to acquire in-depth knowledge in the diagnosis and treatment of diseases and disorders of the blood and blood-forming tissues.

6125 Oncology* *2.0 credits*

This course is designed for medical students to acquire in-depth knowledge in the diagnosis and treatment of diseases and disorders of malignancy, and cancerous growths.

6126 Orthopedics* *1.3 credits*

Medical students learn to diagnose and treat problems of the musculoskeletal system, including both congenital and acquired orthopedic defects. Various methods of examining orthopedic patients, including clinical, X-ray, sonographical and para-clinical examination, are studied.

6127 Otorhinolaryngology* *1.3 credits*

This course is designed for medical students to acquire in-depth knowledge in the diagnosis and treatment of diseases and disorders of the ears, nose, throat, and adjacent structures of the head and neck.

6128 Cardiology *2.0 credits*

This course is designed for medical students to acquire in-depth knowledge in the diagnosis and treatment of diseases and disorders of the heart and cardiovascular system.

6129 Physical Diagnosis *5.0 credits*

Students focus on the study of the techniques of history taking and physical examination. The art and science of determining disease by inspection, palpation, percussion, auscultation, and interview of the patient are stressed. Correlation of this information with pertinent radiological and laboratory findings is included.

6130 Ophthalmology *1.0 credits*

This course studies the structure and the pathology of ocular tissue. Students learn common ocular disorders and treatment, including clinical optics and refraction, orbital disorders, and diseases.

6131 Minor Surgery *5.0 credits*

This course exposes students to specialized general surgical problems and provides an introduction to clinical diagnosis, surgical treatment, and rudiments of operating room techniques.

6132 Obstetrics *1.3 credits***6133 Gynecology** *2.7 credits*

These courses provide students with an overview of the field of obstetrics and gynecology, and with an introduction to the areas of maternal-fetal medicine, reproductive endocrinology, and gynecologic oncology. The objective is to offer students, regardless of their ultimate professional activity, knowledge of vital aspects of the care of women and newborns.

6134 Pediatrics *4.0 credits*

This course is a basic introduction in the diagnosis and management of disease in children throughout their period of growth and physical development.

Naturopathic Physical Medicine**6135 Part I** *8.0 credits***7039 Part II** *9.3 credits*

These courses teach methods of therapeutic manipulation of muscles, bones, and spine. The use of ultrasound, diathermy, exercise, massage, water, heat, cold air, and gentle electrical pulses are studied, both in classroom and in clinical training settings.

7036 Botanical**Medicine/Systems** *10.0 credits*

Many plant substances are powerful medicines. Where single chemically derived drugs may only address a single problem, botanical medicines are able to address a variety of problems simultaneously. Their organic nature often makes botanicals compatible with the body's own chemistry; hence, they can be gently effective with few toxic side effects.

7037 Homeopathic Medicine *4.0 credits*

Homeopathic Medicine is based on the principle "likes cures like." It works on a subtle, yet powerful electromagnetic level, gently acting to strengthen the body's healing and immune response.

7040 Naturopathic Case Study *4.0 credits*

This course requires each student to prepare and present a case study with history, examination, intake, results, diagnosis, evaluation, treatment principle, and Naturopathic Medical treatment. These presentations and discussions, supervised by clinical faculty, enhance the students' abilities and confidence in the medical care of patients. Written reports are also required.

7041 Florida Law and Ethics 1.7 credits

The course focuses on the legal and moral dimensions of medical decisions. Course content includes such topics as abortion and infanticide; euthanasia and care for the dying; truth telling and confidentiality; the patient's domain over his or her body; paternalism in the physician-patient relationship; the rights and care of the mentally retarded; and the setting of a value on a human life. Students also learn the laws related to the practice of Naturopathic Medicine in Florida.

7042 Practice Management 1.3 credits

The course familiarizes the student with the process of opening and managing a healthcare practice. Topics include writing a business plan, developing office policies and procedures, insurance billing, and the ethical considerations with respect to prescribing medications and selling hers to patients.

Integrative Family Medicine

7143 Part I 8.3 credits

8005 Part II 8.3 credits

8109 Part III 13.3 credits

This clinical training is done primarily at the College's Medical Clinic under direct supervision of teaching physicians. Students are exposed to general family medical practice and rotate through specialty departments of integrative medicine, including general medical care of patients ranging from newborn to geriatric patients. Students start this clinical experience in the sixth semester and see patients with staff physicians, performing history and physical examinations, ordering laboratory and diagnostic testing, and formulating diagnosis and treatment plans. Students work in Naturopathic physical therapy and herbal medicine departments. The Medical Clinic includes X-ray, laboratory, pharmacy, herbal dispensary, cardiac lab, pulmonary function lab, Naturopathic manipulative therapy lab, and minor surgical suite.

Clinical Sciences

7144 Internal Medicine 8.3 credits

This course is designed as a full time assignment for students to medical clinical services, focusing on internal medicine. Under supervision, the students are assigned patients, obtain clinical histories, perform physical examinations, evaluate laboratory data, and analyze information in order to define patients' problems.

8002 Obstetrics & Gynecology 2.7 credits

In a clinical setting, students learn in the area of Obstetrics and Gynecology to recognize, appreciate, and treat obstetric and gynecological disorders. This clerkship provides students with the fundamental knowledge and skills necessary to care for the gravid female and for patients with disorders of the reproductive system.

8003 Pediatrics 2.0 credits

This clerkship in pediatrics provides first-hand experience in the diagnosis and management of common pediatric disorders. Students also have an opportunity to work in a busy emergency clinic where many children with are seen with ordinary acute illnesses.

8004 Dermatology 1.3 credits

Students gain first-hand experience in the diagnosis and treatment of diseases and disorders of skin, in the context of a busy clinic.

8004 Naturopathic Physical Medicine 3.3 credits

In a clinical setting, students apply a wide variety of appropriate Naturopathic physical treatments to deal with various disorders and dysfunctions of the musculoskeletal system, including manipulation, hydrotherapy, electric stimulation, prolotherapy, and so on.

8107 Minor Surgery *3.7 credits*

The clerkship in surgery aims to develop the skills needed by the physicians that are unique to surgery. Students are expected to participate in all aspects of patient care, including assisting in the operating room. Students will attend rounds, conferences, and other teaching exercises of the surgical service and related specialties.

8108 General Psychiatry *1.3 credits*

This rotation is designed to build upon the student's psychosocial knowledge developed during the first and second years of study. Experiences will include psychiatric interviews and general diagnostic study in the clinical setting.

Admission Requirements

The College is authorized to admit only licensed physicians (MDs, DOs, DCs) to the program with advanced standing. Admission requirements for non-physicians are presented for future information purposes.

Applicants for admission to the Doctor of Naturopathic Medicine Program as licensed physicians with advanced standing (MD, DO, DC) must complete an interview and provide the following:

- Certified copies of all transcripts (undergraduate and graduate)
- Copies of all specialty training/certifications and current professional licenses

Applicants for admission to the first-year class of the Doctor of Naturopathic Medicine Program must meet the following requirements prior to matriculation:

- A bachelor's degree from a regionally accredited college or university or its foreign equivalent
- The following coursework with GPA of 2.0 or better on a four-point scale:
 - Eight semester hours of general biology including laboratory
 - Eight semester hours of general chemistry including laboratory
 - Four semester hours of organic chemistry including laboratory

- Six semester hours of physics or college algebra or higher math
- Three semester hours of English literature or humanities
- Three semester hours of English composition
- Three semester hours of behavioral sciences

This coursework represents minimum academic requirements for admission. It is desirable for students to take additional coursework in the biological sciences, behavioral sciences, anatomy, physiology, English/communications, statistics/probability and philosophy/humanities.

Preference will be given to students with a cumulative GPA of 3.0 or higher. In unusual circumstances, the Dean may modify particular requirements when evaluating applicants for admission.

All applicants to the full program will be required to take the Medical College Admission Test (MCAT) and have the score submitted to the College.

Additional Applicant Requirements

- The applicant must complete the College's Application Form for admission to the Naturopathic Doctor Degree Program.
- The applicant must be of good moral character.
- The applicant must possess a genuine desire to pursue a medical education program that is rigorous and challenging.
- The applicant must submit two letters of recommendation. One letter of recommendation must be from an ND, MD, DO, or DC.
- The applicant must complete a personal interview with a committee selected by the College.

Tuition and Fees

Tuition is \$7000.00 per semester. An application fee of \$100.00 (non-refundable) must accompany the application for admission. A first-semester registration fee of \$300.00 (non-refundable after the second week of the first semester) is due upon acceptance. A fee of \$200 is charged to cover expenses of graduation.

Non-Obligation Policy

If withdrawal occurs within three working days of signing an enrollment agreement, there is no financial obligation and all payment is refunded, except the application fee. Charges for textbooks and required materials/equipment are refunded if returned in new/unused condition.

Refund Policy

The College uses a fair and equitable refund policy that is the same for all students who are terminated or who withdraw from the program.

If withdrawal occurs during weeks one and two of any semester (the drop/add period), all paid tuition is refunded, including charges for textbooks and required materials/equipment if returned in new/unused condition. After the second week, tuition is refunded on a weekly pro rata basis when withdrawal occurs during weeks three through ten. If withdrawal occurs after the tenth week, all tuition for the semester is non-refundable and chargeable, and textbooks and other required materials/equipment may not be returned. Any attendance in class or clinical training during the week of withdrawal constitutes attendance for the week. All refunds are paid within 30 days of the date the College determines withdrawal occurred. The student has the obligation to notify the College of withdrawal in person or in writing, but the College, in cases of non-notification, makes every effort to determine an equitable withdrawal date.

III. GRADING AND ATTENDANCE POLICIES

Grading Policy

The College uses the conventional “A” through “F” and “Incomplete” grading system. There is no “D” grade; however, “Pass” and “No Pass” are used in certain circumstances.

A = Excellent	90 -100%
B = Above Average	80 - 89%
C = Average	70 - 79%
F = Failure	69% and below

If a student fails to complete the requirements in the time allocated for a course, an “Incomplete” grade will be assigned. Incomplete grades must be completed within 2 weeks of course termination. An incomplete grade that is not completed within the allotted time is changed to a grade of “F,” unless the Dean determines otherwise.

The minimum standard for satisfactory performance is

- 70% on exams
- a grade of “C” as final course grades
- a grade point average of 2.0 at completion of the Program
- clinical skills evaluated as satisfactory

Unsatisfactory grades or progress may result in academic probation for a semester and/or dismissal from the Program. The Academic Dean and the faculty are responsible for academic discipline or dismissal. The student must demonstrate satisfactory academic performance for academic probation to be lifted. Satisfactory grades for repeated courses or exams will normally replace “F” grades in terms of satisfactory progress and GPA. Repeating courses or exams are at the discretion of the Dean and the faculty.

The grievance procedure stated under Other Policies may be used to contest academic discipline.

Attendance Policy

The College requires prompt and regular attendance. Faculty members identify their attendance policies in each course syllabus, but, in general, students are required to attend 70% of their scheduled class hours and 100% of their scheduled clinical hours (where applicable). In addition, students must be present for all exams. Under unusual circumstances, a student may take a missed exam by petitioning first the faculty member and then later the Academic Dean — both prior to the exam date (whenever possible). However, allowing a student to make up a missed exam is *completely at the initial discretion of the appropriate faculty member*. The circumstances of each make-up exam request is then reviewed by the Dean, which may, in some cases, result in students being placed on academic probation.

Other Policies

- **Transfer Credit Accepted.** The College, at its discretion, *may* accept transfer credits earned in programs of Naturopathic medicine accredited by the Council for Naturopathic Medical Education or other applicable medical credits earned at regionally accredited medical institutions in the United States or foreign medical institutions recognized by the World Health Organization. A minimum of two years of campus-based education must be completed at the College to earn the Doctor of Naturopathic Medicine degree. No provision is made for life experience credit or credit by examination.
- **Transferability of Credit Earned.** Credits earned at the I. W. Lane College of Integrative Medicine are transferable only at the discretion of other institutions. Absolutely no assurance of transferability of credits is given and students should not assume transferability.
- **Semester Credit System.** The College uses the semester credit system in which 15 hours of classroom instruction (or 30 laboratory) hours equals one semester credit.
- **Course Cancellations.** The College makes every effort to avoid course cancellations. When it is necessary to cancel a course, the College will provide advance notice to students of the cancellation. College cancellation of a course requires full refunds to students for the course.
- **Employment and Licensure Disclaimer.** Completion of the Program does not constitute any guarantee of licensure or employment.
- **Equal Opportunity Institution.** The College is an equal opportunity institution and does not discriminate on the basis of race, color, age, religion, gender, national or ethnic origin, sexual orientation, or disability in its educational programs, activities, hiring or student admissions practices.
- **Student Grievances.** Student grievances involving, but not limited to, academic or disciplinary actions that cannot be otherwise resolved must be stated in writing and presented to the Vice President. An investigation is conducted that may require a meeting with an Administrator. Every effort will be made to reach a fair and just resolution of the grievance. If the matter is still not resolved, the student may request a grievance hearing in writing through the Vice President. The Vice President then appoints a Grievance committee to be made up of five objective members with representation from the faculty (two members), administration (two members), and student body (one member). The Vice President participates as a non-voter. After the hearing, the Vice President notifies the student in writing of the Committee's decision. Students who feel a grievance is unresolved may refer their grievance to

Executive Director,
Commission for Independent Education,
2650 Apalachee Parkway, Suite A,
Tallahassee, FL 32301,
Toll-Free 888-224-6684.
- **Anti-Hazing Policy.** The College prohibits any form of hazing by students, staff, or faculty. Violation of the policy will result in disciplinary action and possible dismissal.
- **Additional Policies.** Additional policies for students, faculty, and staff are included in the *Student Handbook*, *Faculty Handbook*, and the *Administrative Policies and Employee Handbook*.

Academic Calendar for NMD Program 2004 – 2005

For the Advanced Standing program, the College uses a compressed semester system as follows:

- Semester One begins no later than the third week of March.
- Semester Two begins the first week of August (or last two days of July).
- Semester Three begins no later than the third week of November.

2004

- **Semester One**
March 12 – July 11, 2004
 - Drop-add period ends on March 22, 2004
- **Semester Two**
July 30 – November 6, 2004
 - Drop-add period ends on August 9, 2004
- **Semester Three**
November 12, 2004 – March 6, 2005
 - Drop-add period ends on November 22, 2004

2005

- **Semester One**
March 11 – July 10, 2005
 - Drop-add period ends on March 21, 2005
- **Semester Two**
August 5 – November 6, 2005
 - Drop-add period ends on August 15, 2005
- **Semester Three**
November 11, 2005 – March 5, 2006
 - Drop-add period ends on November 21, 2005

Academic Calendar for MSHN Program 2004 – 2005

- **Semester One**
September 21 – January 22, 2005.
 - Drop-add period ends on September 28, 2004.
- **Semester Two**
February 1 – May 14, 2005.
 - Drop-add period ends on February 8, 2005.

Academic Calendar for Intro Herbal Program 2004 – 2005

The complete 45-hour program is offered in 15-week blocks – though more than one section may be available.

The first program offering begins September 22, 2004 and ends January 19, 2005.

Holiday Schedule 2004 – 2005 (No Classes Held)

	2004	2005
New Year's Eve	Dec. 31	Dec. 31
New Year's Day	Jan. 1	Jan. 1
Easter	Apr. 11	Mar. 27
Memorial Day	May 31	May 30
Independence Day	Jul. 4	Jul. 4
Labor Day	Sep. 6	Sep. 5
Thanksgiving	Nov. 25	Nov. 24
Christmas Eve	Dec. 24	Dec. 24
Christmas Day	Dec. 25	Dec. 25

Note: When students are enrolled in the full four-year program (if restoration of naturopathic physician licensure in Florida by the State Legislature occurs), the College will issue a separate academic calendar.

IV. DISCLOSURE STATEMENTS

In compliance with the requirements of the Commission for Independent Education and accrediting bodies, the student should be aware of the following statements.

Professional Licensing

Credits and degrees earned in the Doctor of Naturopathic Medicine Program will not automatically qualify the holder to participate in professional licensing examinations to practice Naturopathic Medicine in any jurisdiction where licensure currently exists. Persons interested in practicing Naturopathic Medicine should contact the jurisdiction of interest to inquire as to the specific requirements for licensure.

Currently, the State of Florida is not licensing Naturopathic Physicians. An active and promising effort to restore licensure is underway, but there is no guarantee that licensure will be restored in Florida.

Accreditation

The College's Doctor of Naturopathic Medicine Program is not currently accredited by the Council for Naturopathic Medical Education (CNME). Most jurisdictions where licensure exists require this accreditation for licensure.

The Master of Science in Herbal and Nutritional Health and Introduction to Herbal Medicine programs are new and are also not accredited.

The College is actively pursuing accreditation and its leadership has carefully informed itself regarding the requirements for accreditation. Nevertheless, there is no guarantee that candidacy or full accreditation will be achieved.

As a new institution, the College as a whole is unaccredited and will begin the application for accreditation. No guarantee of achieving such status is made or should be assumed by enrolling students.

V. STUDENT SERVICES

The College is very supportive of the success of students while enrolled in the program and after graduation. The Director of Institutional Development supervises a range of student services that include academic advisement, personal advisement, advisement for the Student Government, organized campus communication, and placement. A more complete explanation of student services is contained in the Student Handbook.

Financial Aid

The College is currently developing relations with several private financial aid organizations, some of which specialize in medical education. Qualifications for private financial aid are determined by the private organizations, not by the College. Contact the College for information. Students are obligated to repay all loans.

VI. FACULTY

This list identifies medical professionals who have agreements with the College to serve as faculty and/or clinical supervisors when the program starts. These persons represent a growing body of well-trained and skilled doctors who are committed to this medicine and are eager to see an educational program implemented as soon as possible.

Kirti M. P. Kalidas, MD, ND

- MD – University of Witwatersrand, Johannesburg, South Africa
- ND – National College of Naturopathic Medicine, Portland, Oregon
- Residency – Internal Medicine, Georgetown Internal Medicine Program, Washington, DC
- Board Certified in Internal Medicine, American Board of Internal Medicine
- Licensed to practice medicine in Florida
- Licensed to practice Naturopathic Medicine in Oregon

Jack Young, MD, PhD

- MD – University of Miami Medical School, Miami, Florida
- MS, PhD – Wayne State University, Detroit, Michigan, Major in Biochemistry
- BS, BA – Albion College, Albion, Michigan
- Residency – Internal Medicine, University of Miami
- Diplomat – American Board of Emergency Medicine
- Fellow – American College of Sports Medicine
- Fellow – American Board of Chelation Therapy
- Nominee for the Regents Award for Superior Teaching, University of Oklahoma
- NIH Researcher
- Clinical Professor – University of Miami
- Licensed to practice medicine in Florida

David A. Cheesman, DO

– Academic Dean

- DO – West Virginia College of Osteopathic Medicine, Lewisburg, West Virginia
- BS – University of California, San Diego, California
- Residency – Family Medicine
- Licensed to practice Osteopathic Medicine in Florida

Stanley F. Stockhammer, DO

- DO – University of Osteopathic Medicine and Surgery, Iowa
- BA – University of Miami, Miami, Florida
- Board Certified in Family Medicine
- Residency – Family Medicine at Westchester General Hospital, Miami, Florida
- Licensed to practice Osteopathic Medicine in Florida
- Former Chief of Staff of Peninsula Medical Center Teaching Hospital, Ormond Beach, Florida
- Assistant Clinical Professor of Medicine at Nova Southeastern University in Florida

R. W. Geldner, ND, DC

– Chief Medical Officer

- ND, DC – National College of Chiropractic and Naturopathic Medicine, Chicago, Illinois
- Licensed to practice Naturopathic Medicine in Florida
- President of the Florida Naturopathic Physician Association

Stephen Pao, PhD

- PhD – Ohio State University, Food Science
- MS – Ohio State University, Food Science
- Associate Professor at Virginia State University
- Extensive research experience in food science

Susan J. Hathaway, PhD

- Ms, PhD – University of New Mexico, Albuquerque, New Mexico, Major in Physiology
- BS – University of Maryland, College Park, Maryland
- MSOM – National College of Oriental Medicine, Orlando, Florida
- Experienced instructor in basic medical sciences

Michael P. Constantine, ND

- ND – National College of Naturopathic Medicine, Portland, Oregon
- BS – University of Miami, Miami, Florida
- Licensed to practice Naturopathic Medicine in Oregon

Laurence Grey, MD, ND, DC

- MD – Spartan Health Sciences University, St. Lucia, West Indies
- ND – Canadian College of Naturopathic Medicine, Toronto, Ontario
- DC – Canadian Memorial Chiropractic College, Toronto, Ontario
- Licensed to practice Naturopathic Medicine in Arizona
- 15 years of teaching experience

Emanuel Orfas, ND

- ND – National College of Chiropractic and Naturopathic Medicine, Chicago, Illinois
- Licensed to practice Naturopathic Medicine in Florida

Jack F. Hinze, ND, Pharm. D

- ND – Canadian College of Naturopathic Medicine
- Pharm. D – University of Tennessee
- BS – University of Nebraska
- Licensed to practice Naturopathic Medicine in Arizona
- Over 15 years of teaching experience

Keith Marshall, DO, FACOS

- DO – Kirksville College of Osteopathic Medicine
- BS – Concordia University, Montreal, Canada
- Interned at Southeastern Osteopathic Hospital, North Miami Beach, Florida
- Residency and General Surgery, Mount Clemens Hospital, Michigan
- Fellowship in Urology at Southeastern Medical Center, Miami, Florida
- Board Certified in General Surgery
- Clinical Assistant Professor of Surgery at Nova Southeastern University, Florida
- 18 years experience as a teaching physician and surgeon

Richard Evans, DO, FACOS

- DO – Chicago College of Osteopathic Medicine
- BS – Southern Illinois University
- Residency training in General Surgery, Mount Clemens General Hospital, Michigan
- Fellowship in Vascular Surgery, Mount Clemens General Hospital, Michigan
- Board Certified in General Surgery
- Clinical Assistant Professor of Surgery at Nova Southeastern University, Florida
- 18 years experience as a teaching physician and surgeon

Diane Cantrell, MD, FAAEM

- MD – University of South Florida College of Medicine
- BS – University of South Florida
- Residency training at Orlando Regional Medical Center in Emergency Medicine ; Board Certified in Emergency Medicine, Upjohn Award for Medical Microbiology, founding member of AAEM

Frank S. Ervolino, ND

- ND – Bastyr University, Seattle, Washington
- MS – Bastyr University in Chinese Medicine, Seattle, Washington
- BS – Florida Institute of Technology, Melbourne, Florida
- Licensed to practice Naturopathic Medicine in Washington
- Licensed to practice Oriental Medicine in Florida

Carol L. Roberts, MD

- MD – University of Texas, San Antonio
- BA – Harvard University, Cambridge, Massachusetts
- Residency – Ear, Nose & Throat Surgery, Albert Einstein College of Medicine
- Board certified – American Board of Otolaryngology
- Board certified in Holistic Medicine
- Vice President of the American Holistic Medical Association
- Licensed to practice medicine in Florida

Dan Clark, MD

- MD – Medical College of Georgia
- BS – Georgia Southeast College
- Residency – OB/GYN at the University Hospital, Jacksonville, Florida
- 20 years teaching and research experience in Integrative Medicine

Peter R. Holyk, MD

- MD – Tufts University, Massachusetts
- Residency – Ophthalmology at the Moses H. Cone Memorial Hospital, NC Board certified in Ophthalmology
- Fellow, American College of Surgeons
- Fellow, American Academy of Ophthalmology
- Specializes in Integrative/Complementary and Alternative Medicine

Konrad Kail, ND, PA

- ND – National College of Naturopathic Medicine, Portland, Oregon
- BS – University of Houston, Houston, Texas
- Professor – Southwest College Naturopathic Medicine & Health, Tempe, Arizona
- Diplomate American College of Naturopathic family Practice, Phoenix, Arizona
- Member Arizona Naturopathic Physicians Board of Medical Examiners
- Member council on Naturopathic Medical Education, 1988 – 1990

Andrew L. Rubman, ND

- ND – National College of Naturopathic Medicine, Portland, Oregon
- BS – Kansas Newman College
- Consultant – National Center for Complementary and Alternative Medicine, National Institutes of Health
- Lecturer – White House Commission on Complementary and Alternative Medicine Policy
- Research Associate – Center for Alternative Medicine Research and Education, Harvard
- Professor of Clinical Medicine, College of Naturopathic Medicine, University of Bridgeport

Amy Blount, ND

- ND – Bastyr University, Washington, Residency in Internal and Integrative Medicine, and certified in Applied Kinesiology and Craniosacral Therapy
- BA – The Julliard School
- Licensed to practice Naturopathic Medicine in Washington

Steven M. D'Antonio, ND

- ND – Bastyr University. Family Practice, Oncology, IV Therapies, and Physical Medicine preceptorship with John Cantanzario, ND.
- BS – University of Florida – Food Science and Human Nutrition

VII. ADMINISTRATIVE STAFF

Michael B. Miller, MD, NMD, Ph.D. — President and Chief Academic Officer

- MD — Spartan Health Sciences University, School of Medicine, St. Lucia
- PhD — Barry University of Orlando in Education Leadership, Orlando, Florida
- NMD — American University of Integrative Medicine, Phoenix, Arizona
- MSOM — National College of Oriental Medicine, Orlando, Florida
- Residency — Family Medicine at the Peninsula Medical Center in Ormond Beach, Florida
- Post Doctoral Studies — University of South Florida School of Medicine and University of Missouri School of Medicine, Kansas City, Missouri
- Adjunct Professor at the Florida Metropolitan University, Orlando, Florida
- 10 years of teaching and administrative experience

Marvin D. Kelly, Ph.D. — Vice President and Chief Administrative Officer

- Ph.D. — Indiana State University in Secondary Education, Indiana
- MED — Florida Atlantic University in Guidance and Counseling, Boca Raton, Florida
- BA — Florida Southern College in Social Science Education, Lakeland, Florida
- Former Assistant Professor at University of South Florida
- Over 30 years experience in teaching, educational administration, and non-profit administration.

- David A. Cheesman, DO
— Academic Dean
- R. W. Geldner, ND
— Chief Medical Officer
- Vincent Miskell, MA
— Director of Institutional Development
 - Admissions
 - Student Services
 - Institutional Effectiveness
- Imelda Parsonage
— Registrar and Records Administrator
- Jonghyun Peterson, MLS
— Director of Library Services
- Fred Van Kersbergen, BS
— Director of Finance

VIII. BOARD OF DIRECTORS

The business of the College is managed, its corporate powers exercised, and its educational objectives defined by a Board of at least nine members, two-thirds of whom must be public members. The Directors are committed to educational excellence of the highest caliber.

- R. W. Geldner, ND
— Chairman and Affiliated Member
- Michael B. Miller, MD, NMD, PhD
— Affiliated Member
- David A. Cheesman, DO — Affiliated Member
- Mark T. Muller, PhD — Public Member
- Anne F. Lunsford, JD — Public Member
- Brian Blackburn — Public Member
- Keena Lee — Public Member
- Betty Mandus — Public Member
- I. W. Lane — Public Member