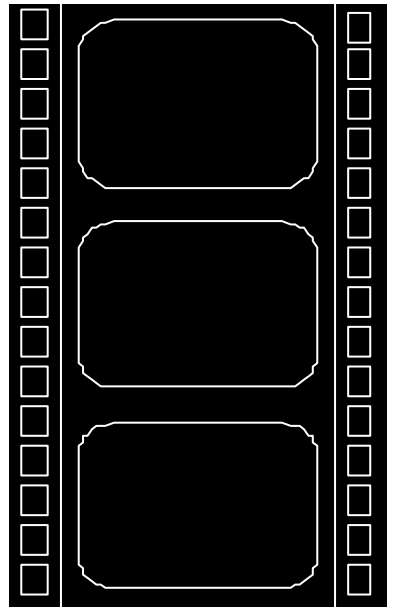
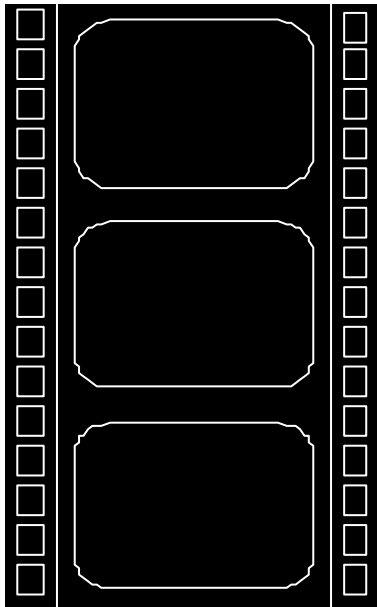
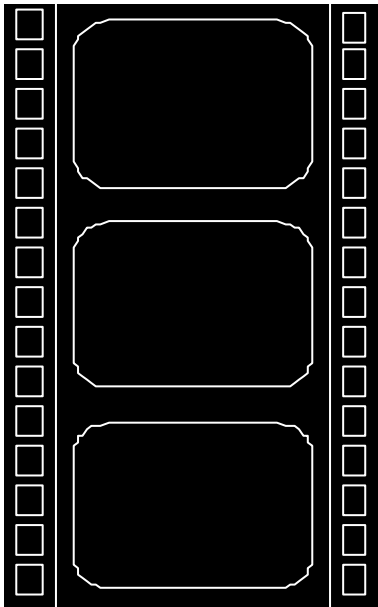
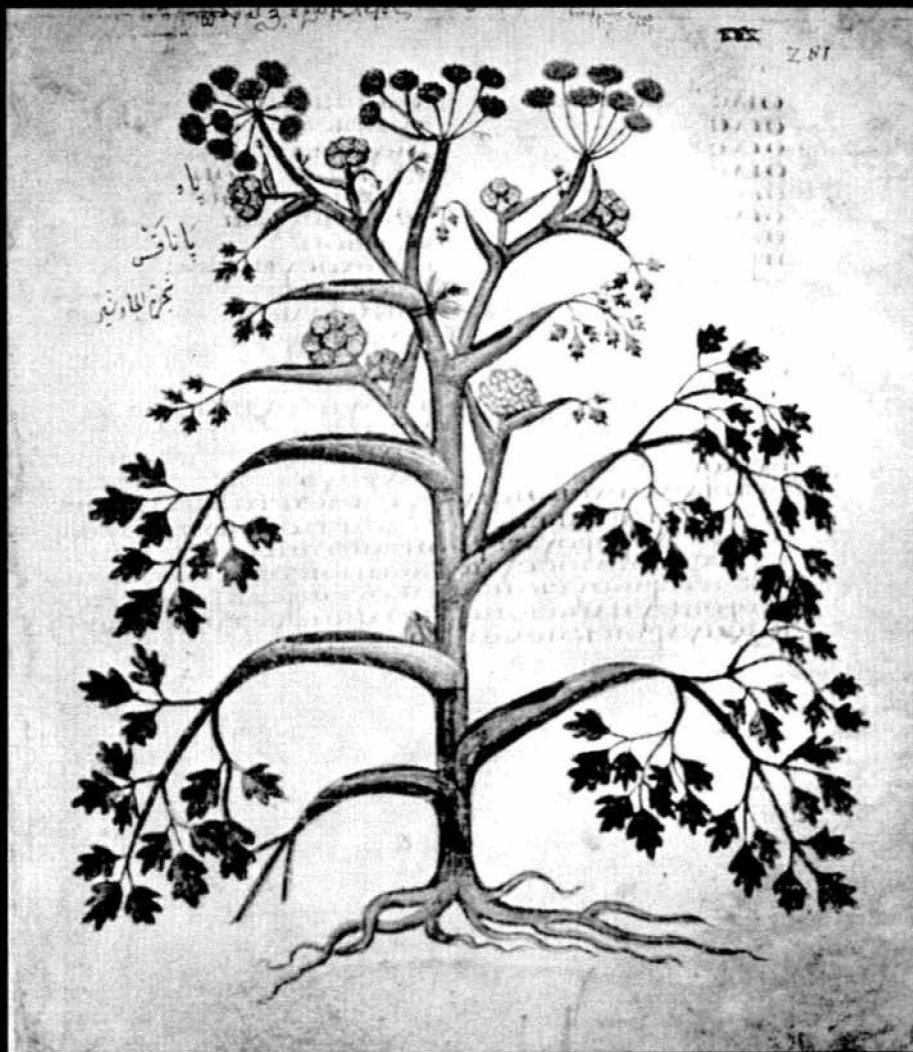


Miscellaneous Document found in envelope at the end of the minutes for the Assembly Committee on Commerce.



# BULLETIN 1978-80



**ON THE COVER:** Perhaps the most valuable manuscript in the history of botanical medicine and pharmacology is the *Codex Vindobonensis med. gr. I*, better known as the "Vienna Dioscorides." The author, Pedanius Dioscorides, was active in Rome during the time of Nero and completed this work c. 60 AD. The botanical illustrations are taken primarily from another ancient work, *Rhizotomicon* by Crateuas of Pergamon (physician, 120-60 BC) and also from the works of Galen and other ancient authors. The Vienna *Codex*, a 6th Century copy of the lost original contains 491 parchment leaves.

The plant shown on the cover is PANAX HERAKLIOS, *Ferula opopanax*, commonly called "broad-leaved giant fennel." The specific name *opopanax* refers to the milky juice of the root which was dried to a yellow granular form and used medicinally. A 1735 work on *Materia Medica* lists its uses as: "Abdominal pains, strokes, cramps, epilepsy; externally on sores, boils, fistules, hip gout, and podagra." The hollow *Ferula* stalks were used for the preservation of manuscripts.

**The National College  
of Naturopathic Medicine**



BULLETIN 1978-80  
AUGUST, 1978  
PORTLAND, OREGON 97204

The *Bulletin* of The National College of Naturopathic Medicine is published for the purpose of providing students, applicants, and the public with information about the policies and educational programs of the College. This does not constitute a contract with any student. All contents are subject to change without prior notice.

The National College of Naturopathic Medicine does not discriminate on the basis of race, sex, religion, age, color, creed, national origin, or marital or parental status in the administration of educational policies, admission policies, financial aid, employment, or any other program or activity.

# The National College of Naturopathic Medicine

**Bulletin  
1978-80**

**Portland Campus:**  
510 SW Third Avenue  
Portland, Oregon 97204

**Wichita Campus:**  
3100 McCormick Avenue  
Wichita, Kansas 67213

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*Director of Admissions and Registrar*

Lee Ann Magan, B.A.

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## Academic Calendar — Portland Campus

1978-1979		1979-1980
September 25	<i>Fall Term Registration</i> Classes Begin	September 24
October 9	Late Registration Deadline	October 8
November 23-26	Thanksgiving Recess	November 22-25
December 16	Fall Term Ends	December 15
December 17-January 1	Christmas Recess	December 16-January 1
January 2	<i>Winter Term Registration</i> Classes Begin	January 2
January 15	Late Registration Deadline	January 14
February 19	Washington's Holiday	February 18
March 24	Winter Term Ends	March 29
March 25-April 1	Spring Recess	March 30-April 6
April 2	<i>Spring Term Registration</i> Classes Begin	April 7
April 13-15	Easter Recess	
April 16	Late Registration Deadline	April 21
May 28	Memorial Day	May 26
June 22	Spring Term Ends	June 27
June 23	Graduation	June 28
July 4	Independence Day	July 4
September 3	Labor Day	September 1

## Academic Calendar — Wichita Campus

1978-1979	
August 29	<i>Fall Semester Registration</i>
August 30	Fall Classes Begin
September 4	Labor Day — No Classes
September 8	Deadline for Late Registration / Schedule Changes
October 13	Fall Semester Recess — No Classes
November 23-26	Thanksgiving Recess — No Classes
December 16	Fall Semester Ends
January 3-16	INTERTERM — Optional Classes Available
January 22	<i>Spring Semester Registration</i>
January 23	Spring Classes Begin
January 30	Deadline for Late Registration / Schedule Changes
February 22	Cardinal Newman Day — No Classes
April 12-16	Easter Recess — No Classes
May 17	Spring Semester Ends
May 19	Commencement



## A Message from the President

What an exciting time to be a part of The National College of Naturopathic Medicine!

It's been said that no army on Earth is as powerful as an idea whose time has come. Naturopathic medicine is such an idea, and now is the time.

We've struggled for years to keep the spark of naturopathic medicine alive, and now the torch of *vis medicatrix naturae* burns brightly, lighting the path to tomorrow's health care.

1978 marks the beginning of a new era for NCNM — a period of rapid change and growth, enabling us to satisfy the ever-increasing demand for physicians trained in preventive medicine and natural therapeutics.

It takes a special kind of person to meet the challenges of naturopathic education and practice — one who is dedicated to the service of others through healing and health education, remembering always that he or she is merely a channel for the healing power of Nature. That is the kind of student we hope will find a place at NCNM.

The new struggle is really just beginning. I sincerely hope that everyone who reads this *Bulletin* will find both information and inspiration. Please consider ways in which *you* can contribute to the natural health care movement. It means better health for all!

Yours in health,

JOHN B. BASTYR, N.D.

## Naturopathic Medicine

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Naturopathic medicine is a distinct system of healing — a philosophy, science, art, and practice which seeks to promote health through education and the rational use of natural agents. As a separate profession, naturopathic medicine in America traces its origins to Dr. Benedict Lust. Late in the nineteenth century, Lust came to the United States from Germany to practice and teach the hydrotherapy (“water-cure”) techniques popularized by Sebastian Kneipp in Europe. A committee of Kneipp practitioners met in 1900 and determined that the practice should be broadened to incorporate all natural methods of healing, including such things as botanical medicines, homeopathy, nutritional therapy, medical electricity, psychology, and the emerging manipulative therapies. They called their profession “Naturopathy,” a term first used by Dr. John H. Scheel, a German homeopath. The American School of Naturopathy in New York City, founded by Benedict Lust, graduated its first class in 1902.

Although the name “naturopathic” is of relatively recent origin, the philosophical basis and many of the methods of naturopathic medicine are ancient. The modern naturopathic physician is a true inheritor of the Hippocratic tradition in medicine.

### Philosophy

The human body possesses tremendous power to heal itself through mechanisms of homeostasis — restoring balance in structure and function and adapting to environmental changes. This vital force, the *vis medicatrix naturae*, is the foundation of naturopathic philosophy and practice. The naturopathic physician uses those therapeutic substances and techniques which act in harmony with the body’s self-healing processes and avoids treatments which are designed to counteract or supervene them. Ideally, naturopathic methods are applied as a means of stimulating and enhancing this “healing power of nature.”

Naturopathic medicine is a wholistic approach to health — it is medicine for people, not for diseases. The myriad conditions called diseases, each a different point of imbalance on the health spectrum, affect a whole person — body, mind, and spirit — not simply an isolated organ

or system. Each person responds in unique ways to his or her environment; each has individual strengths, weaknesses, and needs. In treating the whole person, the naturopathic physician searches for causes at many levels and attempts to eliminate the fundamental cause of illness, not simply to remove symptoms. The ultimate control of one's level of health resides in the individual. The naturopathic physician endeavors to stimulate the body's inherent recuperative powers and to assist them by showing the patient how to remove obstacles to their expression.

### Science

The science of naturopathic medicine is an ever-expanding body of knowledge drawn from diverse traditional and modern sources. It is a record of observation and research in many cultures throughout history. Included in this science are the disciplines common to all healing arts — a thorough study of the human organism, how it is influenced by all aspects of its environment, and techniques of discovering the nature of disease processes. Naturopathic physicians apply the latest research in all branches of medical science and technology to their field — from discoveries of new facts about human physiology, biochemistry and nutrition to the most modern diagnostic tools and techniques.

Beyond these conventional studies, naturopathic medical science embraces other diagnostic techniques and an armamentarium of proven therapeutics which reflect its philosophical principles. New developments in natural therapeutics emerge from research conducted by naturopathic physicians into the scientific basis of their practice. The results are new medicinal preparations and new methods of diagnosis and treatment.

### Art

The art of naturopathic medicine is essentially the application of philosophy and science to people. The naturopathic physician develops an ability to gain insight into the causes and effects of personal health problems and to use his or her knowledge and skill to assist patients in finding solutions. Only in the role of teacher — the literal meaning of "doctor" — can a physician practice truly preventive medicine. By helping people to understand how the choices they make about their lives have an effect on their health, naturopathic physicians provide health education — the highest form of health care. The ultimate goal of the physician is to give each patient the tools to achieve the highest possible level of health and the encouragement to use them.



## Practice

The naturopathic physician is trained as a general practitioner, able to provide a wide range of individual, family, and community health services to persons of all ages. He or she is specifically trained to assist in all phases of obstetrical care for natural childbirth at home.

Naturopathic medicine integrates into a single profession all healing methods which are compatible with its philosophy. These therapeutic tools may be classified into four broad categories which are outlined below with *some* examples. This is not intended to be a comprehensive list of natural therapeutics.

### *Physical*

hygiene

all methods of physiotherapy, including heat and cold, light, water, ultrasound, and electricity

manipulation of joints and soft tissues

massage

therapeutic and remedial exercises

minor surgery

### *Neurological*

spinal manipulation

acupuncture and acupressure

reflexology and pain control

### *Psychological*

counseling

hypnotherapy

biofeedback and autogenic training

### *Biochemical*

corrective nutrition including dietary supplements

vitamins, minerals, enzymes, glandular extracts and hormones

botanical medicines

homeotherapeutics

Naturopathic physicians cooperate freely with other practitioners of the healing arts, referring and accepting referrals of patients for specialized care.



The scope of practice and methods employed varies widely among naturopathic physicians. Naturopathic medicine is not bound by a built-in orthodoxy — it is characterized by a healthy individuality and a freedom to explore old and new methods of diagnosis, prevention and treatment. The distinctive feature of naturopathic practice is not so much what is done as why it is done. This can be appreciated by thoroughly understanding the philosophical basis of naturopathic medicine.

## The National College of Naturopathic Medicine

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The National College of Naturopathic Medicine was founded in 1956 in Portland, Oregon as an independent non-profit institution devoted to the training of naturopathic physicians. The College held classes in Portland until 1960 when it moved to Seattle, Washington, maintaining an extension division in Portland. The continued survival of NCNM was due largely to the sacrifices of a small group of dedicated physicians who served as teachers, administrators, and trustees during these early years of the College's growth.

Recognizing a growing public awareness of the need to re-evaluate conventional health care approaches and an increasing demand for qualified naturopathic physicians, NCNM initiated its present phase of expansion in 1973. The teaching of the basic science curriculum was transferred to Wichita, Kansas, and the first class of full-time students was admitted to a completely new four-year program. In 1975, the clinical sciences program returned to Portland to receive the third-year students who began their study in Kansas. Since then the teaching and patient care facilities of the College have been continuously expanded in the Postal Building, 510 SW Third Avenue, Portland.

In 1978 NCNM accepted first-year students to a new basic science program at the Portland Campus. This marks the return of a complete four-year program to Portland.

The College is governed by a Board of Directors elected by the licensed naturopathic physicians of the United States and Canada. No Director receives any remuneration for services rendered to the College in this capacity.

**The Portland Branch** is located in the Postal Building, an historical landmark at 510 SW Third Avenue, Portland, Oregon. This building houses the NCNM classrooms and administrative offices as well as the patient care facilities of the College's teaching clinic, The Portland Naturopathic Clinic. The College will be moving to a new campus in the Portland area by September 1980. Students may attend the Portland Branch of NCNM for all four years of the N.D. program.

The **Wichita Branch** is located on the campus of Kansas Newman College, 3100 McCormick Avenue, Wichita, Kansas. Kansas Newman is a fully accredited liberal arts college which has contracted with NCNM to provide teaching personnel and facilities for a portion of the professional level basic science courses. Other naturopathic courses at this campus are taught by faculty of NCNM. Students may attend the Wichita Branch of NCNM for the *first two years only*.

### **Accreditation**

The National College of Naturopathic Medicine is accredited by The Council on Education, Canadian Naturopathic Association.

NCNM is the only active school of naturopathic medicine currently recognized by all state and provincial boards of naturopathic examiners as qualifying graduates for licensure examinations. (See page 25 for more information on licensure.)

### **Extension Division**

As the demand arises, NCNM may establish extension programs at various locations in the United States and Canada. These extension programs are designed to enable persons with a recognized doctorate in the healing arts to obtain the N.D. degree by attending classes and clinical training on a part-time basis. The length of time required for each student to earn the N.D. degree will depend on what portion of the NCNM curriculum has been duplicated in the student's previous professional training.

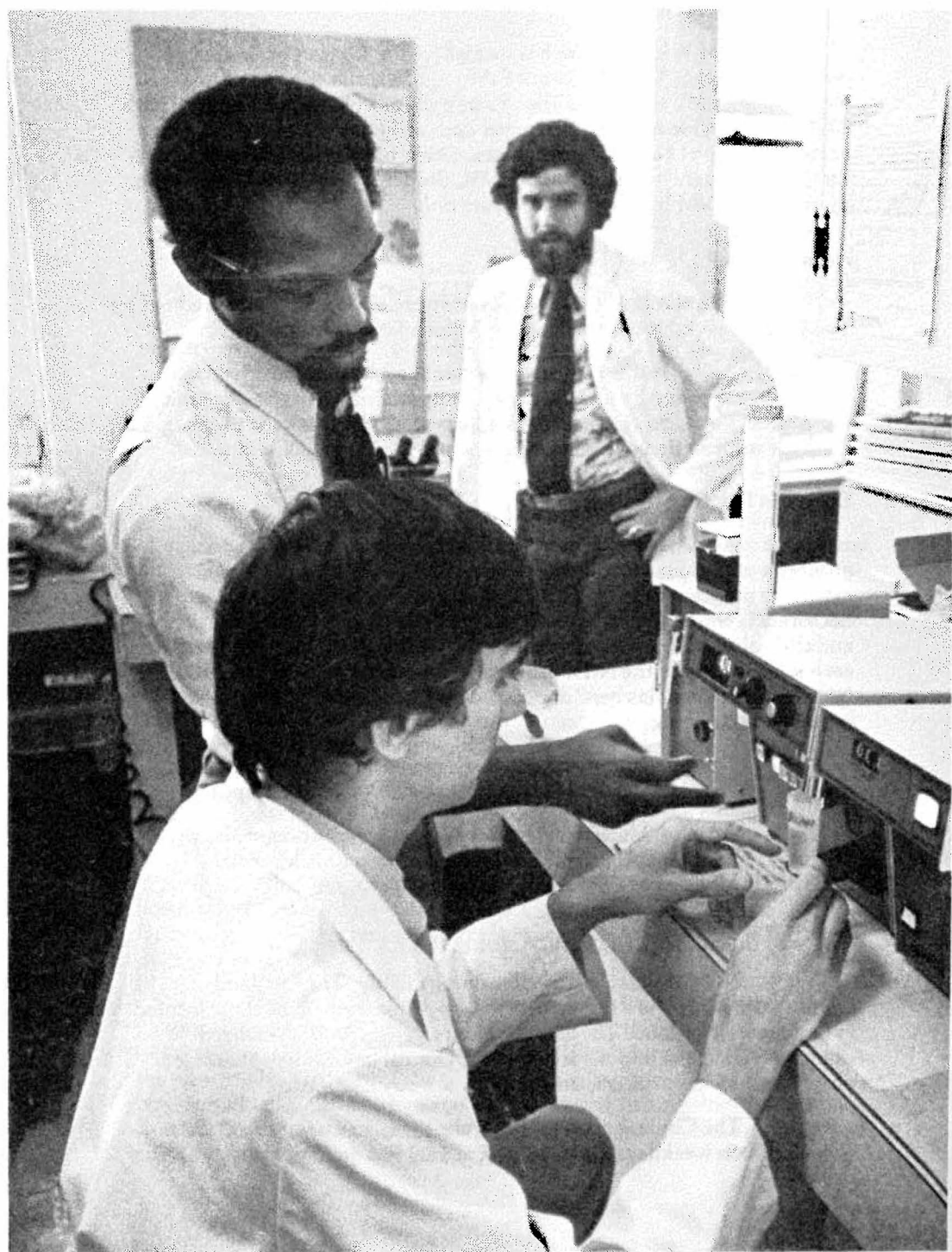
The curriculum and academic regulations at each extension division will be identical to those in effect at the Portland Campus.

All admissions to extension programs are processed by the Office of Admissions, National College of Naturopathic Medicine, 510 SW Third Avenue, Portland, Oregon 97204.

### ***The Portland Naturopathic Clinic.***

NCNM's major clinical training facility, The Portland Naturopathic Clinic is a full-service naturopathic outpatient clinic located in downtown Portland. The Clinic contains general and specialized examining rooms, a minor surgery suite, clinical laboratory, pharmacy, physiotherapy department, and diagnostic x-ray equipment.

The Clinic is open to the public by appointment, 1:00 PM to 6:00 PM on weekdays and 8:00 AM to 1:00 PM on Saturdays.



## Admissions

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The National College of Naturopathic Medicine has a limited enrollment and admits new students on a competitive basis. All applications for admission are reviewed by the Admissions Committee, which evaluates each candidate's motivation, character, and academic achievement for evidence of those qualities desired in a naturopathic physician and ability to successfully complete and contribute to the NCNM program.

### *Preparing for Naturopathic Education*

In order to treat the whole person, one must strive to become a whole physician. There is no simple formula that will insure success as a student or practitioner of naturopathic medicine. Several courses are required as basic preparation for naturopathic education, but beyond these subjects, students are encouraged to pursue individual interests and educational goals and to explore many fields of knowledge during their undergraduate years.

We hope to attract students with a wide variety of talents and backgrounds who will contribute to the growth of naturopathic medicine. More important than a record of academic excellence are life experience and personal attributes which are needed by a true doctor — maturity, integrity, sound judgment, empathy, and a desire to serve. "Well-rounded" individuals with an ability to communicate effectively and a capacity for growth, responsibility, and independence will be best equipped to meet the challenges of a career in naturopathic medicine.

### Minimum Requirements for Admission

Applicants for admission to NCNM in Fall 1979 must have completed 60 semester credit hours or equivalent of undergraduate study at an accredited college. Only courses with grades of 'C' or better may be applied toward this requirement. When selecting an undergraduate program to meet the NCNM prerequisites, a student is advised to choose those courses which are recommended for pre-medical students. The following courses must be included:

- One year General Chemistry with lab
- One year Organic Chemistry with lab
- One and one-half years Biology with lab, which includes one course in Botany and one course in Zoology\*
- One half year Mathematics
- One year English
- One year Psychology

\*The Botany/Zoology requirement may be met by a sufficiently detailed one-year General Biology course.

The following courses are recommended: Genetics, Comparative Anatomy, Animal Physiology, English Composition, and a foreign language.

Prerequisites for admission in Fall 1980 include 90 semester credit hours or equivalent, including the following courses:

- One year General Chemistry with lab
- One year Organic Chemistry with lab
- One year General Biology with lab
- One course Botany with lab
- One year Physics with lab
- One year English

In addition to the courses recommended above, Psychology and Calculus are recommended for 1980 admission.

All specified prerequisite courses must have been taken within ten years of the date of desired entrance to NCNM.

### Conditional Acceptance

Applicants who have not completed all requirements for admission at the time of application may be accepted on the condition that those requirements will be fulfilled before the date of registration. The student must indicate, on the appropriate portion of the NCNM application form, the courses in progress or to be taken. Successful completion of requirements must be verified by official transcripts as soon as each course is completed.

### *Admissions Procedure*

New students are presently admitted only in the fall of each year. To be considered for admission to NCNM, an applicant must submit the following to the Office of Admissions, National College of Naturopathic Medicine, 510 SW Third Avenue, Portland, Oregon 97204, between August 1 and January 31:

1. Completed NCNM application form.
2. \$35.00 non-refundable application processing fee.
3. Official transcripts from each college attended.
4. Two letters of recommendation (NCNM provides forms).
5. Results of Medical College Admission Test (MCAT).  
Not required for 1979 admission.

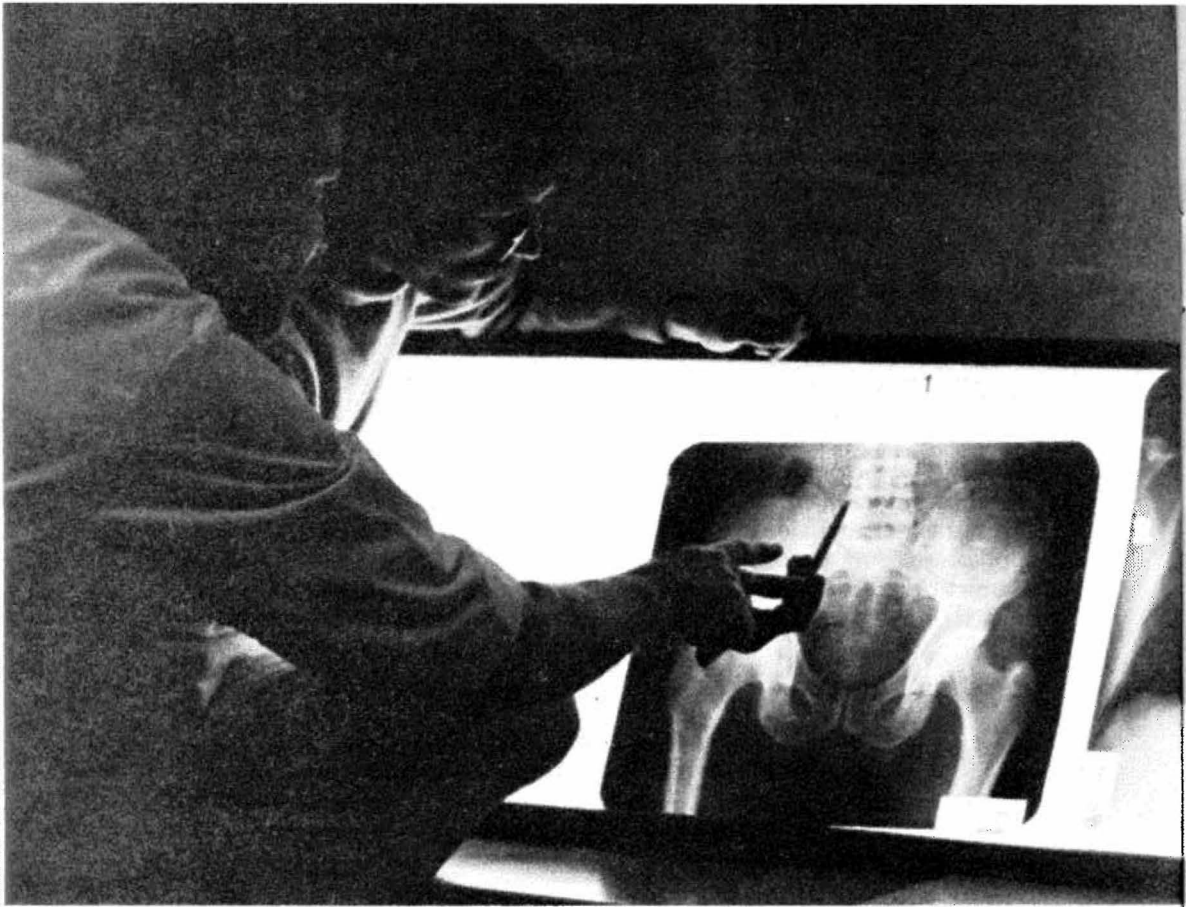
### Choice of Campus

Because the first two years are offered at both Portland and Wichita Campuses, an applicant may choose one of the following options when applying for admission:

1. Indicate that the application is for Wichita *only* or Portland *only*; OR
2. Indicate that one campus is preferred, but either would be acceptable; OR
3. Indicate no campus preference.

Every effort will be made to place accepted students at the campus of their choice.





### **Transfer Students and Advanced Standing**

A limited number of students may be admitted each year with advanced standing. Applicants with doctoral degrees from recognized professional schools of the healing arts, or credits toward such a degree, may apply for admission with advanced standing. Only residency courses at the post-graduate level which duplicate the NCNM curriculum will be credited toward advanced standing.

### **Foreign Students**

Foreign students are welcome to apply to The National College of Naturopathic Medicine. Foreign applicants who are accepted for admission to the Wichita Branch will be issued the 1-20 form for U.S. Immigration and Naturalization Service by Kansas Newman College. NCNM is currently seeking approval to issue this form to students at the Portland Campus.

### **Personal Interview**

All applicants are welcome to visit the Portland Campus of NCNM for an interview with a member of the Admissions Committee. Interviews may be scheduled through the Office of Admissions. Occasionally, the Committee may require an applicant to appear for an interview in order to obtain additional information needed for the selection process.

### **Notification of Acceptance**

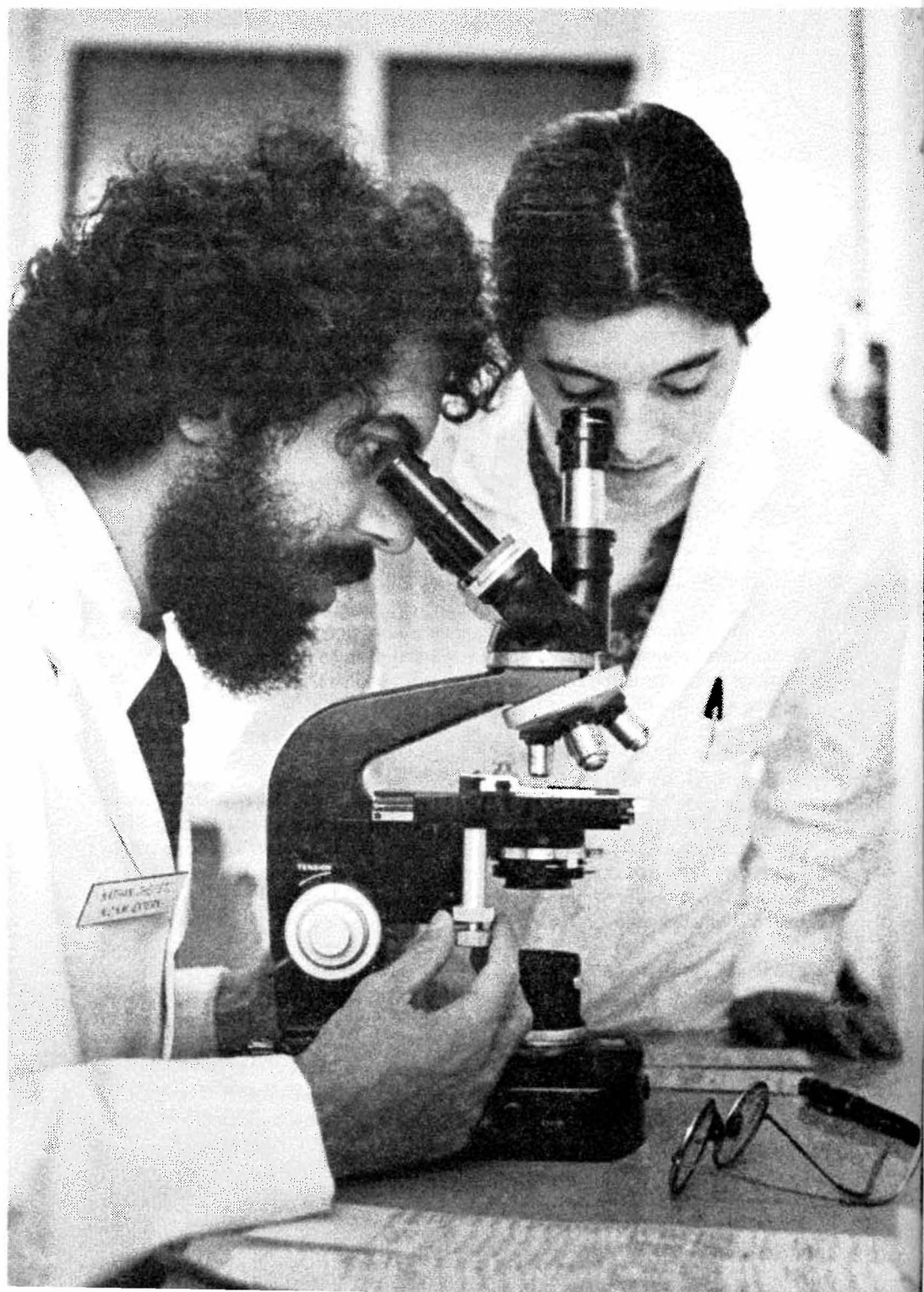
The Admissions Committee reviews all applications at the close of the application period. Each applicant is given written notification of acceptance, placement on a waiting list, or rejection. All notices are mailed on or about April 1. Those applicants who are accepted to the Wichita Branch will receive an application for admission to Kansas Newman College which must be completed and returned to that institution before enrollment.

### **Responding to NCNM's Offer of Admission**

An applicant who is offered admission to The National College of Naturopathic Medicine and wishes to accept this offer must pay a \$150 deposit by April 30 to reserve a place in the entering class. This deposit will be credited toward the applicant's tuition and is not refundable. If the deposit is not received in the specified time, the place will be offered to another applicant on the waiting list.

### **Medical Examination**

All applicants who are accepted will receive a medical examination form which must be completed by a licensed physician and returned to NCNM. The physician is asked to attest to the physical and mental health of the applicant, and to his or her ability to undertake the NCNM program.



# Academic Regulations

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## Student Evaluation and Promotion

The National College of Naturopathic Medicine maintains high standards of scholarship and professional achievement, and it is felt that all students who are admitted are capable of meeting those standards and successfully completing the N.D. program. The College recognizes a responsibility to use all its resources to provide each student the fullest opportunity to satisfy the academic requirements.

Each academic department is required to clearly define and announce to students the objectives of each of its courses and the standards by which student achievement will be measured. At the end of each course, the faculty reports each student's performance to the Promotions Committee. Student achievement is reported as: Honors, indicating superior performance; Pass, indicating satisfactory completion of course objectives; or No Credit, indicating the student's work is incomplete or inadequate. Descriptive comments on each student's overall performance are also submitted. These comments must accompany all reports of Honors or No Credit; they are optional with Pass reports. The Promotions Committee will transmit these reports to the Registrar for inclusion in the permanent records. The Registrar will notify each student of his/her evaluations by the faculty as soon as possible after the completion of each term.

Promotion to each successive phase of the program is based on continued satisfactory performance. The progress of each student is reviewed at the end of each term by the Promotions Committee, consisting of the Academic Dean and four members of the faculty. This committee, in consultation with the departments involved, advises students whose work is deficient what remedial action is necessary to obtain credit for specified courses. This may include completion of the course requirements, independent study, re-examination, repetition of a course or term, or completion of an equivalent course at another institution approved by the committee. The committee may also place a student whose achievement is

marginal on academic probation for a period of time. Veterans who are on probation for more than one term may be disqualified for benefits from the Veterans Administration. During this time the student must demonstrate consistent academic improvement or he/she may be required to withdraw from the College. If the committee finds that a student shows little promise of ability to complete the program, it may recommend dismissal of the student.

Any decision of the Promotions Committee may be appealed through the normal appeals procedure outlined below.

### **Attendance**

The National College of Naturopathic Medicine expects prompt and regular attendance of classes by all students. A minimum attendance of 90% of scheduled class hours is required. A student may be required to repeat a course for more than 10% absence.

### **Professional Conduct and Appearance**

The College expects all students to maintain appropriate professional standards of conduct and appearance during their period of study at NCNM. Failure to maintain these standards is grounds for dismissal.

### **Discipline, Dismissal and Appeals Procedure**

Following appropriate warnings, a student may be recommended for disciplinary action or dismissal for unsatisfactory academic or clinical performance, or for continued behavior which is unacceptable to the college community.

Academic problems are dealt with by the Promotions Committee as described above.

Problems concerning student conduct are referred to the Administrator at the Wichita Campus or to the Dean of Students at the Portland Campus. These officials will hold a hearing with the student involved and decide what disciplinary action, if any, will be taken.

All decisions concerning disciplinary action or dismissal for any reason may be appealed to the College Appeals Committee, consisting of the Academic Dean, Dean of Students, Clinic Director, two members of the faculty, and two students.

The student may further appeal a decision of the Appeals Committee to the President, whose decision is final.

### **Withdrawal from the College and Readmission**

Students who wish to withdraw must complete an "Interruption of Education" notice and submit it to the Registrar of NCNM. Any tuition refunds or remaining financial obligations to the College will be determined on the basis of the date this notice is received.

Students who have withdrawn for any reason may request readmission by writing to the Admissions Committee within one year of withdrawal. Every effort will be made to accommodate a student who withdrew in good standing; students who were required to withdraw for academic or disciplinary reasons will be expected to show evidence of ability or preparation to continue successfully in the program. After one year from the time of withdrawal, an entirely new application for admission must be submitted and the student will be required to meet the admission prerequisites in effect at the time of reapplication.

### **Student Records and Transcripts**

The Registrar maintains permanent records of each student at The National College of Naturopathic Medicine in Portland. A student's record contains his/her application file, personal information, faculty reports and descriptive comments, and records of action by the faculty or administration concerning that student.

These records may be examined by the individual student upon request, and they are available to members of the faculty and administration with a demonstrated need. No part of a student's record will be released to persons outside the College without written consent of the student.

The transcript is an official record of all academic credits awarded to the student by the College. It lists the course title, number of hours, and faculty report for each course taken. One copy of the transcript is provided to each student free of charge. Additional copies are \$5 each.

*Students enrolled at the NCNM Wichita Campus are also officially registered as students of Kansas Newman College. As such they are granted all rights and privileges, and are subject to all rules and regulations of both institutions. The KNC catalog should be consulted for information on student affairs.*

## *Requirements for Degrees*

### **Bachelor of Science**

Upon completion of the basic science portion of the curriculum at the Wichita Campus, students are eligible for a Bachelor of Science degree in Human Biology from Kansas Newman College. Details concerning degree requirements and application procedures are available from the KNC Registrar.

### **Doctor of Naturopathic Medicine**

The candidate for the N.D. degree must fulfill the following requirements:

1. Pass all courses in the prescribed curriculum.
2. Complete the final two years of professional training in residence at National College of Naturopathic Medicine.
3. Attend the required number of hours in clinical externship and preceptorship.
4. Have made acceptable arrangements for discharging any financial obligations to NCNM and any affiliated institution.
5. Be 21 years old.
6. Be recommended by the faculty for a degree.

### **Licensure Requirements**

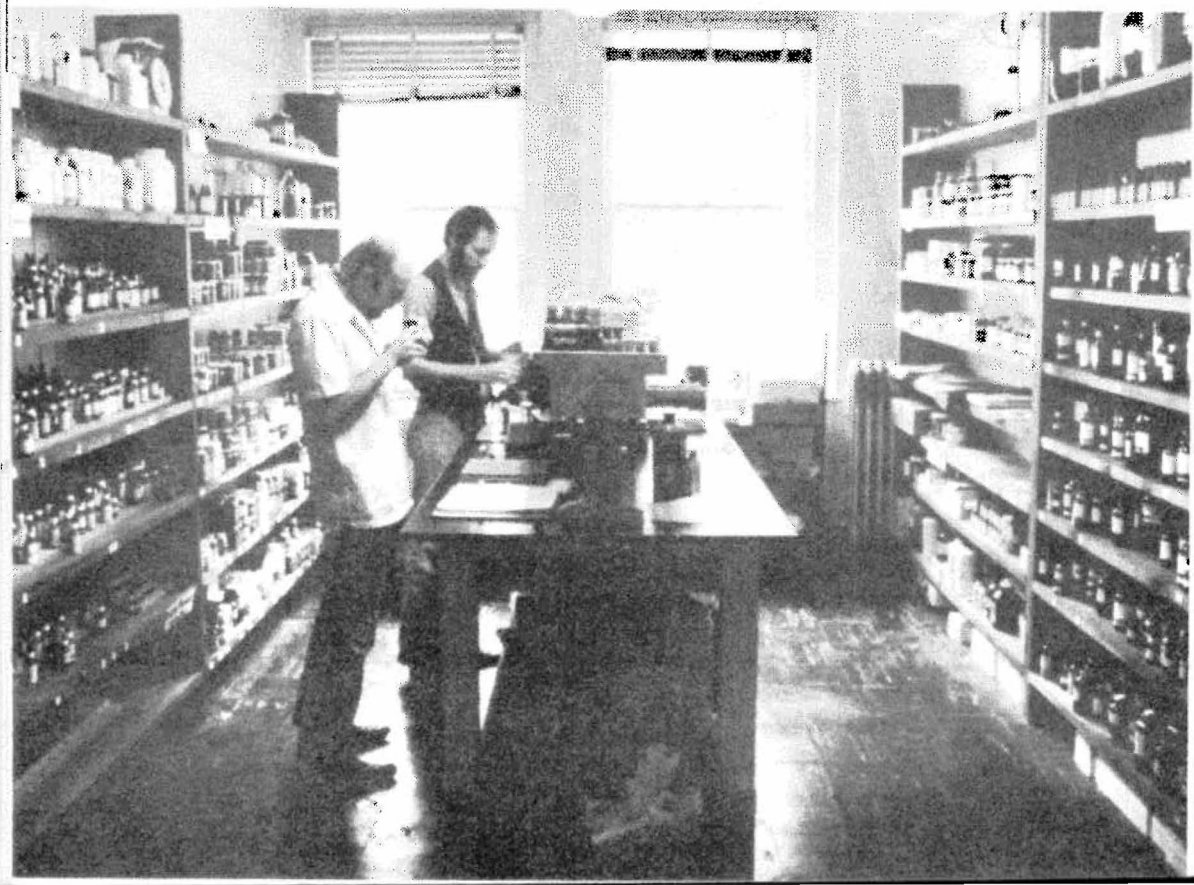
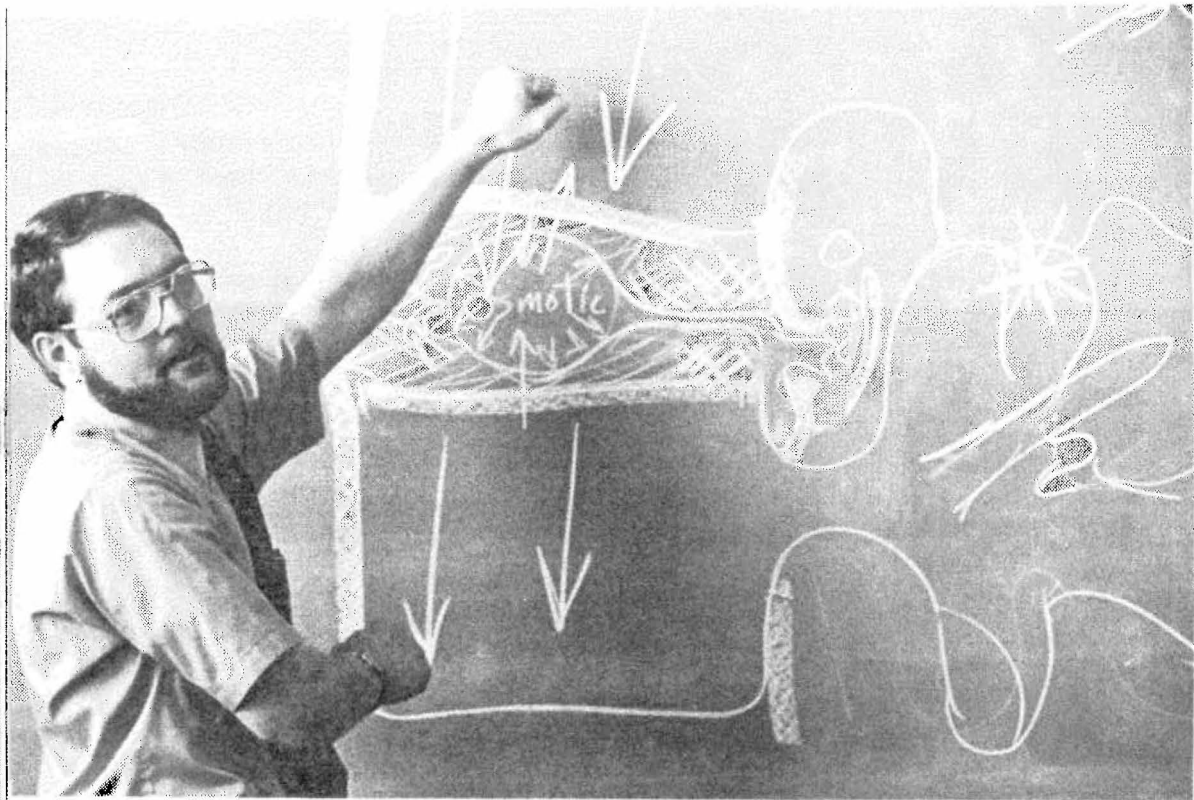
Naturopathic physicians practice in virtually every state and province under various legal provisions. The following jurisdictions have laws which specifically license naturopathic physicians: Arizona, Connecticut, District of Columbia, Florida, Hawaii, Oregon, Utah, Washington, and the Canadian provinces of Alberta, British Columbia, Manitoba, Ontario, and Saskatchewan. Each state or province listed above has its own examining and licensing board and its own requirements for licensure. Each requires that an applicant be a graduate of an approved naturopathic college with at least 4000 hours of training in specified subject areas. Most also require two years of pre-professional college education.

Specific questions about the legal status and/or licensure requirements for practice in a particular state or province should be directed to the appropriate government agencies or to the state or provincial naturopathic association.









## Financial Information

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### *Tuition and Fees (1978)*

#### **Portland Campus**

Tuition and applicable fees are payable in full to NCNM at the time of registration for each term. Tuition is \$1000.00 per term.

#### *Fees*

Dissection laboratory.....	\$150.00
X-ray laboratory.....	\$ 25.00
Other laboratories .....	\$ 15.00
Graduation .....	\$ 35.00
Late Registration.....	\$ 15.00

#### **Wichita Campus**

All tuition and fees are paid to Kansas Newman College according to the schedule in force at KNC. Tuition is \$68 per credit hour for all courses. Consult the KNC catalog for information on fees.

#### **Other Expenses**

Students entering the Portland Campus must provide their own microscopes, equipped with low power (10×), high power (44×), and oil-immersion (100×) objectives.

Students are required to purchase textbooks and other equipment as needed for each course. The cost of these items is about \$300 per year.

### **Refund of Tuition and Fees**

At the Portland Campus, refund of tuition is made on a pro-rata basis: the amount of refund is proportional to the time remaining in the term. A registration fee of \$10 is deducted from this refunded tuition. The unused portion of fees is also refunded.

At the Wichita Campus, refunds are made according to the policies in force at Kansas Newman College.

### **Financial Aid**

Eligible students at the Wichita Campus may receive financial aid through Kansas Newman College in the form of Educational Opportunity Grants, National Direct Student Loans, and Federally Insured Student Loans. Applications for financial aid are available from the Office of Financial Aid, Kansas Newman College, 3100 McCormick Avenue, Wichita, Kansas 67213. Requests for financial aid cannot be processed until a student has been accepted by NCNM and KNC, but it is recommended that applications be filed as early as possible. Acceptance for admission to The National College of Naturopathic Medicine and to Kansas Newman College is not a guarantee of financial aid. Students may be required to begin repayment of loans as early as nine months after leaving the Wichita Campus.

Financial aid to students at the Portland Campus is very limited — federal grant and loan programs are not presently available. *There is no financial aid available to first-year students.* The following sources of assistance are administered by The National College of Naturopathic Medicine, through the Office of the Dean of Students:

**The Gray-Culbertson Student Loan Fund** provides loans up to \$500 to needy students who are attending or have attended The National College of Naturopathic Medicine in Kansas.

**The NCNM Student Loan Fund** is maintained by various fund-raising projects conducted by the student body. The Fund makes limited loans to financially needy students.

**The John W. Noble Scholarship** is awarded annually to one needy student completing his or her third year who has shown consistently high academic achievement at NCNM.

### **Information for Veterans**

The National College of Naturopathic Medicine is approved for the training of veterans. Eligible veterans should request transfer of their VA file to the VA office in Portland or Wichita, depending on which campus they will be attending. They should complete a VA application for education benefits and present it to the Registrar of KNC or NCNM for certification.

### **Housing**

At the Wichita Campus, housing in dormitories of Kansas Newman College is available to unmarried NCNM students. For further information, contact the Dean of Students of KNC. For students choosing to live off campus, there is a wide variety of rental housing available in Wichita.

NCNM has no college housing for students at the Portland Campus. The Dean of Students of NCNM will assist students in finding housing in Portland.

### **Student Employment**

Because of the demands of the educational program, students are discouraged from working while attending classes at NCNM. A limited number of student jobs are available at Kansas Newman College, administered by the Financial Aid Office, and at NCNM Portland, administered by the Dean of Students.

### **Student Health Services**

In Portland, the health care services of the Portland Naturopathic Clinic are available to all NCNM students and their dependents at reduced or no charge.

At the Wichita Campus, the naturopathic physicians of the NCNM faculty are available to assist students with their health care needs. Kansas Newman College maintains a student health center, with a registered nurse on duty, to care for minor illnesses and injury. This service is available to all NCNM students at the Wichita Campus. A health insurance plan is also available to students at a special group rate through the KNC Business Office.



## **Program of Study**

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### *The Division of the Basic Sciences*

The NCNM basic science curriculum is designed to provide students with an understanding of the structure and function of the human organism in health and disease. Of equal importance is an understanding of the philosophical basis of naturopathic medicine. This fundamental knowledge prepares the future physician for study and practical experience in clinical medicine. By gaining familiarity with the language and tools of modern naturopathic medicine and an appreciation of scientific research methods, students are stimulated to seek scientific verification of the principles of naturopathic medicine in their own work and in the work of others.

*Synopsis of Curriculum — Basic Sciences — Portland Campus***First Year**

<b>Fall Term</b>		<b>Clock Hrs/Wk</b>	<b>Total Hrs/Term</b>
11001	Conjoint Basic Medical Science I .....	20	240
11021	Biochemistry I .....	5	60
11091	Introduction to Healing Arts .....	5	60
<b>Winter Term</b>			
11002	Conjoint Basic Medical Science II .....	20	240
11022	Biochemistry II .....	5	60
11092	Naturopathic Philosophy .....	5	60
<b>Spring Term</b>			
11003	Conjoint Basic Medical Science III .....	20	240
11023	Biochemistry III .....	5	60
11243	Group Process/Psychology of Health .....	5	60

**Second Year**

<b>Fall Term</b>			
21001	Conjoint Basic Medical Science IV .....	20	240
21071	Microbiology .....	5	60
21301	First Aid and Emergency Medicine .....	5	60
<b>Winter Term</b>			
21002	Conjoint Basic Medical Science V .....	20	240
21062	Immunology .....	4	48
21232	Nutrition I .....	6	72
<b>Spring Term</b>			
21003	Conjoint Basic Medical Science VI .....	20	240
21163	Public Health .....	3	36
21203	Pharmacognosy .....	5	60
21273	Medical Physics .....	2	24

*Synopsis of Curriculum — Basic Sciences — Wichita Campus*

Semester I	Clock Hrs/Week		Semester Credit Hrs	Total Hrs/ Semester
	Lecture	Lab		
12011 Anatomy I .....	6	2	5	128
12031 Physiology I .....	4	4	5	128
12041 Histology .....	3	3	4	96
12091 Introduction to Healing Arts .....	2	—	2	32
12301 First Aid/Emergency Medicine .....	3	1	3	64
	18	10	19	448

**Semester II**

12012 Anatomy II .....	6	2	5	128
12032 Physiology II .....	4	4	5	128
12052 Embryology .....	3	2	4	80
12062 Immunology .....	2	—	2	32
12202 Pharmacognosy .....	3	—	3	48
	18	8	19	416

**Semester III**

22011 Anatomy III .....	6	2	5	128
22021 General Biochemistry .....	3	4	5	112
22031 Advanced Physiology .....	4	—	3	64
22111 Pathology I .....	5	2	5	112
22141 Laboratory Diagnosis .....	1	2	3	48
22161 Public Health .....	4	—	4	64
	23	10	25	528

**Semester IV**

22012 Neuroanatomy .....	6	2	5	128
22022 Clinical Biochemistry .....	4	4	5	128
22072 Microbiology .....	3	4	5	112
22112 Pathology II .....	5	2	5	112
22122 Physical Diagnosis .....	5	—	5	80
	23	12	25	560

## *The Division of Clinical Sciences*

The clinical sciences program presents NCNM students with the opportunity to integrate their basic science knowledge and apply it to the disciplines of clinical medicine. This is a two-year period of transition from student to doctor, in which students receive instruction and gain practical experience in all phases of naturopathic practice. The curriculum combines detailed classroom study — naturopathic materia medica, therapeutic methods, diagnostic techniques, and specialized aspects of medicine — with the development of the skills and sensitivity of patient care as responsible student doctors in The Portland Naturopathic Clinic.

### *Synopsis of Curriculum — Clinical Sciences — Portland Campus*

#### **Third Year**

<b>Fall Term</b>	<b>Clock Hrs/Wk</b>	<b>Total Hrs/Term</b>
31131 Clinical Diagnosis .....	4	48
31201 Pharmacology I .....	2	24
31211 Botanical Materia Medica I .....	2	24
31221 Homeotherapeutic Materia Medica I .....	2	24
31241 Development and Personality Structure .....	2	24
31251 Biomechanics/Manipulation I .....	4	48
31271 Physiotherapy .....	3	36
31401 Gynecology .....	3	36
31901 Clinical Externship .....	20	240
	<b>42</b>	<b>504</b>
<b>Winter Term</b>		
31152 X-Ray Positioning and Technique .....	2	24
31202 Pharmacology II .....	2	24
31212 Botanical Materia Medica II .....	2	24
31222 Homeotherapeutic Materia Medica II .....	2	24
31232 Nutrition I .....	6	72
31402 Obstetrics I .....	4	48
31422 Eye, Ear, Nose, and Throat .....	2	24
31452 Geriatrics .....	2	24
31902 Clinical Externship .....	20	240
	<b>42</b>	<b>504</b>



## 34/PROGRAM OF STUDY

### Spring Term

31153	X-Ray Diagnosis .....	4	48
31213	Botanical Materia Medica III .....	2	24
31223	Homeotherapeutic Materia Medica III .....	2	24
31243	Counseling .....	3	36
31253	Manipulation Technique II .....	2	24
31403	Obstetrics II .....	2	24
31483	Pediatrics .....	2	24
31503	Dermatology .....	1	12
31603	Cardiovascular/Respiratory I .....	2	24
31903	Clinical Externship .....	20	240

40 480

### Summer Term

31904	Clinical Externship .....	25	100
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### Fourth Year

#### Fall Term

41231	Nutrition II .....	5	60
41261	Acupuncture I .....	2	24
41291	Minor Surgery .....	3	36*
41351	Orthopedics .....	4	48
41601	Cardiovascular/Respiratory II .....	3	36
41651	Endocrinology .....	3	36
41901	Clinical Externship .....	20	240

40 480

#### Winter Term

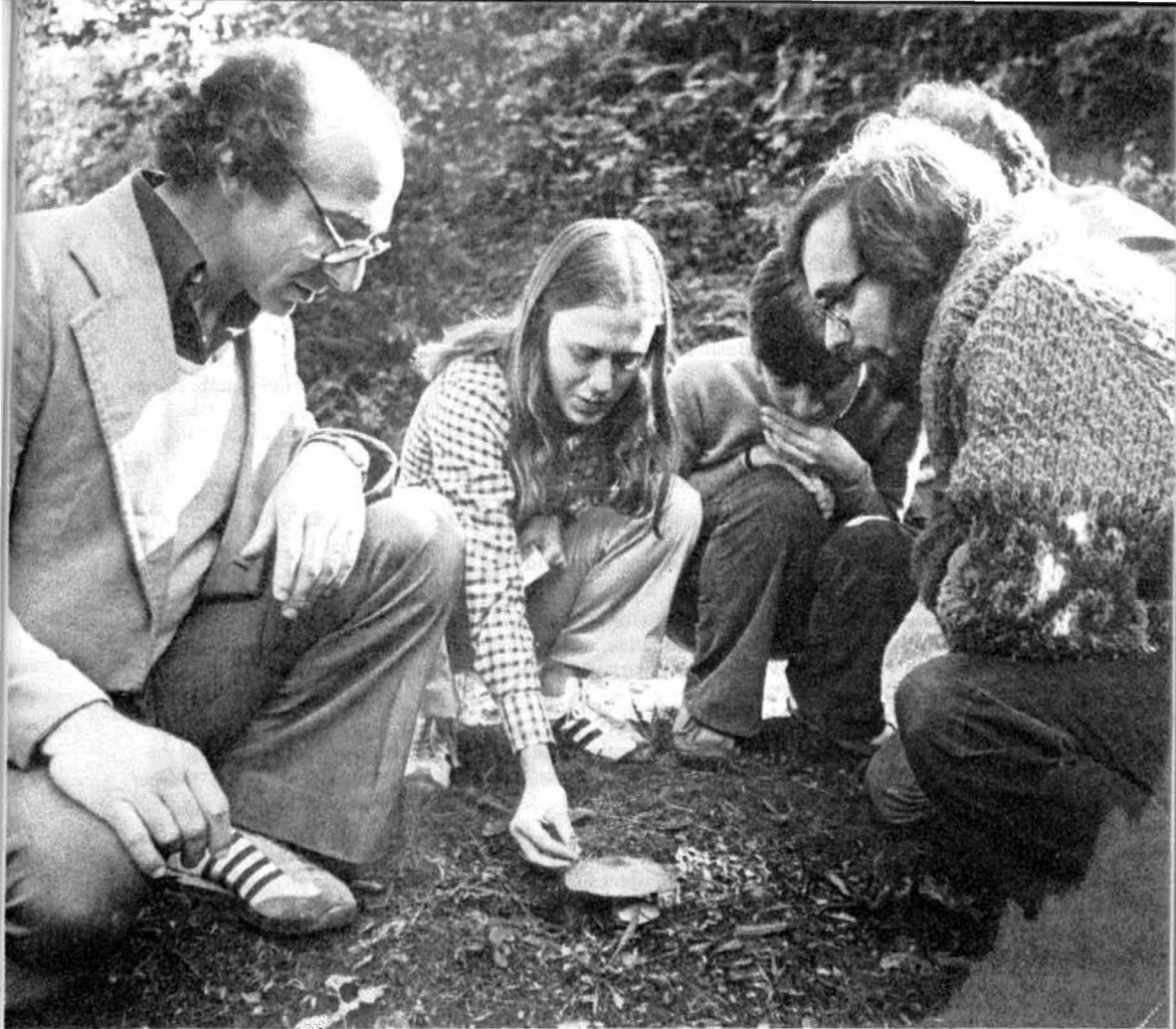
41232	Nutrition III .....	5	60
41242	Human Sexuality .....	2	24
41252	Manipulation Technique III .....	3	36
41262	Acupuncture II .....	2	24
41272	Physical Therapy .....	1	12
41502	Neurological Diseases .....	2	24
41552	Gastroenterology and Proctology .....	3	36
41902	Clinical Externship .....	20	240

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#### Spring Term

41243	Psychological Medicine .....	3	24
41263	Acupuncture III .....	3	24
41703	Oncology .....	3	24
41753	Urology .....	3	24
41803	Medical Jurisprudence .....	3	24
41853	Business and Office Procedures .....	3	24
41903	Clinical Externship .....	20	240

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41953	Preceptorship .....	25	100
3199X, 4199X	Obstetrical Externship (15 births @ 10 hours each) .....		150
<b>Total Hours of Clinical Externship/Preceptorship</b> .....			1710*
<b>Total Hours of Instruction</b>			
	(with Portland basic science) .....		5238
	(with Wichita basic science) .....		5030

\*Students may take additional hours of Minor Surgery and Clinical Externship.

*Description of Courses (Courses listed in numerical order)*

**11001/2/3 Conjoint Basic Medical Science I, II, III**

An integrated approach to the study of the human body. The anatomy, histology, embryology, and physiology of each major organ system are presented as a concentrated unit to better understand the complex interrelationships between structure, development and function.

**11021/2/3 Biochemistry I, II, III**

See 22021/2.

**10091 Introduction to the Healing Arts and History of Medicine**

Explores the origins and developments of the healing arts from prehistoric times to the present. Examines the traditions and principles of the various schools of the healing arts — naturopathic, chiropractic, homeopathic, osteopathic, conventional. Also discusses spiritual and esoteric healing, Oriental and Ayurvedic medicine, and many other systems.

**10092 Naturopathic Philosophy**

Lecture, seminar, and discussions in-depth on the meaning of naturopathic medicine and the role of the naturopathic physician in today's world. Readings from the earliest pioneers of naturopathic medicine.

**11243 Group Process and Psychology of Health**

A didactic and experiential course designed to help students become more aware of their personal growth and interactions within the class, the educational institution, and the community. Emphasizes the importance of the psychological dimensions of health and disease at all levels.

**12001 Anatomy I**

Introduction to the structure of the human body emphasizing the importance of anatomical relationships in clinical problems. Begins with an overview of systems, then examines in detail the anatomy of the thoracic and abdominal regions. Laboratory includes human dissection.

**12002 Anatomy II**

Continuation of regional study of anatomy, concentrating on the male and female pelvis, lower extremity, and the back.

**12031 Physiology I**

A lecture and experimental laboratory course which explores the intricate functional mechanisms of the human organism. The understanding of physiology provides a basis for rational medicine. This course covers basic cellular function, the neuro-muscular interaction, hematopoietic and cardiovascular systems, and the processes of digestion and distribution of nutrients.

**12032 Physiology II**

A continuation of Physiology I with study of renal function, water and electrolyte balance, respiration, neurophysiology, the endocrine glands and hormones, and the physiology of reproduction.

**12041 Histology**

A detailed study of the microscopic structure of human tissues. Histology is a bridge between anatomy and physiology, where structure and function are correlated in the many different types of cells and tissues. Students learn to recognize normal tissues as a basis for comparison in later studies of pathology.

**12052 Embryology**

The development of the human body is traced from fertilization to birth. Knowledge of the processes involved in growth and development of organ systems provides a basis for appreciating the anatomical relationships and many of the congenital abnormalities that may be encountered.

**12062 Immunology**

Discusses the intricate cellular and biochemical defense mechanisms of the immune system. The properties of immunoglobulins and the clinical use of those properties in diagnostic techniques are stressed.

**12091 Introduction to the Healing Arts and Naturopathic Philosophy**

See 11091/2.

**12202 Pharmacognosy**

Familiarizes students with the wide variety of medicinal substances used by naturopathic physicians. Botanical medicine, homeotherapeutics, food, nutritional supplements, enzymes, and trophic preparations are discussed. Provides a basis for detailed study of the materia medica in higher level courses.

**12301 First Aid and Emergency Medicine**

Prepares students to deal with medical emergencies under various circumstances, especially in an office setting. The course includes instruction and practice in conventional procedures for emergencies as well as specific naturopathic treatments for some of these conditions.

**21001/2/3 Conjoint Basic Medical Science IV, V, VI**

A year-long course integrating the study of pathology with the disciplines of physical diagnosis, differential clinical diagnosis and laboratory diagnosis. The disease processes, signs and symptoms and diagnostic techniques for evaluating each organ system are studied in detail. Refer to courses 22111/2, 22122, 22141, and 31131 for discussion of the individual areas that are included.

**21062 Immunology**

See 12062.

**21071 Microbiology**

A lecture and laboratory course in which the anatomy, physiology, taxonomy, and ecology of microorganisms are studied. Particular attention is given to the relationship of microorganisms to man in health and disease. Includes a review of antibiotic action.

**21163 Public Health: Community and Environmental Medicine**

A lecture course in two parts. One part is concerned with the etiology, epidemiology, prevention, and control of communicable diseases, with an emphasis on personal and community hygiene measures. The other portion describes the health effects of a wide variety of environmental pollutants, aimed at enabling students to recognize these hazards and their manifestations in patients.

**21203 Pharmacognosy**

See 12202.

**21232 Nutrition I**

Concentrates on the individual nutrients in food, their interacting biochemical roles in human metabolism, and the effects of nutrient deficiencies.

**21273 Medical Physics**

A lecture course designed to acquaint students with the theory and application of diagnostic x-rays and other electrical devices used in naturopathic practice. Direct and alternating current, electromagnetic radiation, ultrasound, the production of x-rays, and electrical circuits are included.

**21301 First Aid and Emergency Medicine**

See 12301.

**22011 Anatomy III**

Further detailed anatomical investigation — the upper extremity, head and neck.

**22012 Neuroanatomy**

Devoted to comprehensive study of the structure and function of the nervous system — the brain, spinal cord and peripheral nerves. Includes an introduction to diagnosis of lesions of the nervous system by clinical signs and explores the phenomenon of biofeedback.

**22021 General Biochemistry**

Chemical and physical properties of the important classes of compounds that interact in living systems — proteins, lipids, carbohydrates, water, vitamins, minerals, and electrolytes. Metabolic pathways for the production and utilization of these compounds are discussed and explored in the laboratory.

**22022 Clinical Biochemistry**

Primarily concerned with the clinical application of biochemical principles. The processes discussed in General Biochemistry are examined from the viewpoint of clinical manifestations. The chemistry of laboratory tests for many substances in body fluids is detailed.

**22031 Advanced Physiology**

Lecture and seminars in selected topics of current research. Emphasis is on nutrition and related aspects of physiology.

**22072 Microbiology**

See 21071.

**22111 Pathology I**

An introduction to the study of disease processes — the factors involved in the initiation, progression, and resolution of disease. Pathological changes are considered at all levels — cell, tissue, organ, and system. Emphasis is on understanding basic processes, e.g., inflammation, degeneration, and repair, and on systemic disorders. Laboratory concentrates on the microscopic examination of tissue specimens which illustrate the pathological processes.

**22112 Pathology II**

The study of disease processes continues with lecture and laboratory examination of the pathology of each organ system and the interrelationships between various organs in illness.

**22122 Physical Diagnosis**

Lecture and practical course designed to develop students' skills in interviewing of patients, using basic diagnostic tools and conducting complete routine physical examinations. The recognition, differentiation and significance of normal and abnormal physical signs are discussed.

**22141 Laboratory Diagnosis**

A lecture and laboratory course designed to teach the future physician how to get the maximum amount of useful information from clinical laboratory tests. Included are discussion and practice of obtaining and handling specimens, performing laboratory tests, and interpreting laboratory findings.

**22161 Public Health**

See 21163.

**31131 Clinical Diagnosis**

A lecture and discussion course on the recognition and differentiation of conditions based on a patient's symptoms and signs elicited by physical examination and other diagnostic procedures. Through a case study approach, students learn to correlate all findings in order to make a correct appraisal of each patient's condition.

**31152 X-Ray Positioning and Technique**

This course teaches the proper techniques for positioning of patients and the use of x-ray equipment to produce diagnostically useful radiographs. Protection of patients and operators from the hazards of radiation is stressed throughout. Contrast studies, fluoroscopy, and other special techniques are included.

**31153 X-Ray Diagnosis**

The use of radiographic studies for diagnosis of both skeletal and visceral conditions in all regions of the body is presented. Students learn to recognize the normal and abnormal radiographic anatomy of each region and correlate the information obtained from x-rays with other clinical findings.

**31201/2 Pharmacology I, II**

An examination of the actions of all classes of drugs on the body — the chemical pathways through which they act, their effects and side effects, adverse reactions, and drug interactions. Particular attention is given to the drugs in common use in conventional medical practice today.

**31211/2/3 Botanical Materia Medica I, II, III**

A detailed survey of plants and plant preparations used in naturopathic practice, integrating traditional herbal knowledge with modern pharmacological research. The pharmacognosy, pharmacodynamics, toxicology, and therapeutics of each plant are considered, as well as methods of preparing and compounding botanical medicines. Field studies in identification and collection of local plants are conducted.

**31221/2/3 Homeotherapeutic Materia Medica I, II, III**

The principles of homeotherapeutic philosophy are discussed: the law of similars, the concepts of health, disease, cure, and resistance. The symptom-pictures of key remedies are presented in detail. Skills of homeotherapeutic case-taking, repertorizing and prescribing are developed. The third term also includes discussion of the Bach Flower Remedies and Schuessler Biochemic Cell Salts.

**31232 Nutrition I**

See 21232.

**31241 Development and Personality Structure**

Explores theories of psychological development, the various stages of development and their recognition, and the influence of development on personal interactions. The practical use of developmental models in dealing with psychopathology.

**31243 Counseling**

The principles and techniques of creating an effective doctor-patient relationship; developing skills of counseling, recognition of crises and effective methods of crisis intervention are discussed.

**31251 Biomechanics and Techniques of Manipulation I**

Introduces the principles of osseous and soft tissue manipulation with emphasis on the mechanics of the human musculoskeletal system. This provides a foundation for the practical portion of the course — developing the skills of structural assessment and proper positioning and movement for the basic manipulation of the spine, extremities, and related soft tissue.

**31253 Technique of Manipulation II**

Continued instruction and practice of structural assessment and manipulation of osseous and soft tissue aimed at refining basic techniques. Introduces additional manipulative approaches to treatment.

**31271 Physiotherapy**

A lecture and laboratory course which explores the physiological effects and therapeutic use of heat, light, water, electricity, and sound, and the equipment involved in the production or utilization of these natural forces. Students gain practical working knowledge of the various modalities and experience each from the patient's viewpoint. Emphasis is placed on proper application to achieve desired therapeutic results.

**31401 Gynecology**

Focusing on women's health, this course is concerned primarily with the female genital system and the diagnosis and treatment of the problems associated with it. Fertility and family planning are also discussed. Students are encouraged to develop a sensitivity to the special needs of female patients and an awareness of the many factors influencing women's health in today's world.

**31402/3 Obstetrics I, II**

Examines the anatomy and physiology of pregnancy and birth and the role of the physician in each phase of the process. The principles and practice of physical and laboratory examination in pregnancy and labor. This course centers around birth in the home — complete parent education and prenatal care; natural childbirth techniques; diagnosis, prevention, and treatment of problems; examination and care of the newborn. Recognition of dangerous birthing situations and appropriate management are stressed.

**31422 Eye, Ear, Nose, and Throat**

Reviews the anatomy, physiology, and pathology of each of these organs. The use of special diagnostic techniques and the local and systemic treatment of conditions in the eye, ear, nose, and throat. Includes demonstration and practice of the nasal specific and endo nasal techniques.

**31452 Geriatrics**

A consideration of the process of aging and the special health problems of older people. Diagnostic and therapeutic techniques which are commonly used in this area of practice are discussed and performed. Emphasis is placed on preventing, reversing or retarding degenerative changes and maximizing health in the later years.

**31483 Pediatrics**

A course focusing on the special aspects of health care for children. Techniques of examination for assessing children and the normal growth and development patterns are discussed. Emphasis is on the treatment of conditions encountered in family practice.

**31503 Dermatology**

The skin is our largest and most accessible organ; it is also the interface with the external environment. As such, the skin is subject to a vast array of lesions and can provide a great deal of information about the body's internal condition. This course deals with the recognition, diagnosis and treatment of conditions manifesting in the skin.

**31603 Cardiovascular and Respiratory Diseases I**

Pathophysiology, diagnosis, and treatment of conditions affecting the heart, circulatory system, and respiratory system, whose functions are so intimately related. Includes the interpretation of electrocardiography, heartometry, and endocardiography.

**31901/2/3/4, 3199X Clinical Externship**

During the final two years at NCNM, students enter what is perhaps the most challenging and rewarding phase of their professional education — the clinical externship. Each student is scheduled for 20 hours per week in the Clinic, where he or she gradually assumes responsibility for the care of patients under the guidance of the licensed naturopathic physicians of the Clinic Staff. Students also rotate on a weekly basis through the Clinic departments of pharmacy, physiotherapy, x-ray, and laboratory.

Each student is expected to spend at least one month in the Clinic during the summer between the third and fourth academic years.

The Clinic offers expectant parents a program of complete obstetrical services, which includes childbirth in the home. Each student will attend at least 15 births, supervised by a licensed naturopathic physician.

Each student must complete a total of 1710 hours of externship to meet the requirements for graduation.

**41231 Nutrition II**

The application of principles of nutrition to clinical dietetics, including dietary analysis and the concept of biochemical individuality. The recognition and treatment of specific health problems associated with nutritional deficiencies are discussed. Emphasis is on familiarity with and use of current nutritional research in health care practice.



**41232 Nutrition III**

A course which explores the wide variety of dietary regimes which are used in naturopathic practice for treatment of specific conditions. Includes a thorough discussion of fasting, elimination diets, and vegetarian diet, among others.

**41242 Human Sexuality**

Counseling and various therapeutic approaches to sexual problems of men and women, both physical and psychological, are discussed. Students are encouraged to examine their own attitudes toward sexuality and to develop an ability to deal comfortably with the sexual problems of patients.

**41243 Psychological Medicine**

In-depth discussion of the psychological aspects of health and disease, the causes and effects of psychological problems. Explores specific theories and techniques of psychotherapy in an effort to give students a working knowledge of useful methods for helping people with complex problems.

**41252 Technique of Manipulation III**

Presents specialized manipulative systems, including applied kinesiology and sacro-occipital technique, and discusses the use of manipulation in the management of specific health problems.

**41261 Acupuncture I**

A lecture course designed to provide a basic understanding of internal medicine from the viewpoint of traditional Chinese medical philosophy. The principles and use of Chinese diagnosis and introduction to the location, characteristics, and significance of acupuncture meridians and specific points provide a foundation for further study and practice in the advanced courses.

**41262 Acupuncture II**

A continuation of Acupuncture I with detailed study of acupuncture points throughout the body, including a discussion of auricular therapy.

**41263 Acupuncture III**

The application of acupuncture theory to the treatment of patients with various disease conditions. Therapeutics include manual pressure and electrical and ultrasonic stimulation to acupuncture points.

**41272 Physical Therapy**

A consideration of physical techniques and exercises used in the management and rehabilitation of persons suffering from the loss of certain body functions or control as a result of injury or illness.

**41291 Minor Surgery**

A study of the principles, tools and procedures of minor surgery used in naturopathic practice. Much of the course is devoted to the practice of surgical techniques so that students acquire the confidence and skills necessary to perform safe and effective minor surgery.

**41351 Orthopedics**

The diagnosis and treatment of disorders of the musculoskeletal system are discussed and practiced in this course. Laboratories will concentrate on techniques of splinting and casting various body parts. Use of naturopathic modalities in caring for the orthopedic patient is stressed, with discussion of contraindications to treatment.

**41502 Neurological Diseases**

Pathological conditions of the nervous system — illness and injury — are considered. Diagnostic techniques and a wide variety of therapies are discussed. Recognition of conditions requiring referral for specialized care is stressed.

**41552 Gastroenterology and Proctology**

A lecture and practical course which concentrates on the disorders of the digestive tract and associated organs. Physical examination techniques, x-ray and laboratory studies and treatment using the full spectrum of natural therapeutics are discussed.

**41602 Cardiovascular and Respiratory Diseases II**

A continuation of 31603.

**41651 Endocrinology**

A course aimed at understanding the complex interactions of the hormone systems of the body and the causes and effects of hormonal imbalance. Diagnosis and treatment of hormone disorders are presented.

**41703 Oncology**

A lecture course concerned with neoplasms — etiology, pathology, diagnosis, and therapeutics. Emphasizes prevention of cancer. Critically examines conventional and unconventional approaches to treatment and current research.

**41753 Urology**

Study of disorders of the kidney and urinary tract. Details the diagnosis and treatment of these conditions using natural therapeutics.

**41803 Medical Jurisprudence**

Designed to acquaint students with the laws relating to the practice of all healing arts and to naturopathic medicine in particular.

**41853 Business and Office Procedures**

A course to provide students with a fundamental knowledge of the practical aspects of establishing and maintaining a professional office. Topics include financing, real estate, personnel, accounting, insurance, and record keeping.

**41901/2/3 Clinical Externship**

See 31901.

**41953 Preceptorship**

In the senior year, students will also participate in a preceptorship program, in which they assist naturopathic physicians in their own offices and clinics, gaining valuable experience in many aspects of private practice.

**4199X Obstetrical Externship** See 31901/3199X.

## Faculty

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### *Portland Campus*

WILLIAM HENRY BABNICK, D.C., Western States Chiropractic College, 1942; N.D., 1944.

JOHN B. BASTYR, D.C., Seattle College of Chiropractic, 1932; N.D., Grace University, 1936; N.D., Northwest Drugless Institute, 1936.

JEFFREY S. BLAND, B.S., University of California, Irvine, 1967; Ph.D., University of Oregon, 1971.

PRUDENCE A. BROADWELL, B.A., Chico State University, 1968; B.S., Kansas Newman College, 1975; N.D., National College of Naturopathic Medicine, 1977.

ROBERT J. BROADWELL, N.D., American Therapy University, 1951; D.Sc., Tahoe College Graduate School, 1953; D.P.H., 1954.

GENE C. BRUNO, B.A., University of California, Los Angeles, 1973; Dip. Ac., National Acupuncture Association, 1974; Dip. Ac., Hong Kong Acupuncture College, 1975.

BRUCE CANVASSER, B.S.Ed., Wayne State University, 1969; B.S., Kansas Newman College, 1975; N.D., National College of Naturopathic Medicine, 1977.

FRANK S. CARD, B.A., Brigham Young University, 1968; M.S., 1970; D.C., Western States Chiropractic College, 1975; N.D., National College of Naturopathic Medicine, 1976.

NATHAN A. CHEIFETZ, B.S., Kansas Newman College, 1976; N.D. National College of Naturopathic Medicine, 1978.

JOHN D. CHILGREN, B.S., Gonzaga University, 1965; M.S., Washington State University, 1968; Ph.D., 1975.

JACK D. DAUGHERTY, B.S., Warner Pacific College, 1967; D.C., Western States Chiropractic College, 1966; N.D., National College of Naturopathic Medicine, 1967.

JERALD J. DOUGHERTY, B.S., Portland State University, 1967; D.C., Western States Chiropractic College, 1974; N.D., National College of Naturopathic Medicine, 1974.

GERALD N. DOUGLASS, M.T. (AMT), 1960; B.S., Kansas Newman College, 1975; N.D., National College of Naturopathic Medicine, 1977.

JOHN MICHAEL DUNN, B.A., B.S., University of South Florida, 1971; Ph.D., University of Kansas Medical Center, 1977.

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