

# 2025-2026 Bulletin Errata

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## **Educational Requirements for Professional Licensure**

Professional licensure has different rules and procedures depending on your state, country, or international region of practice. The accredited educational programs at the National University of Health Sciences (NUHS) meet the educational requirements of many licensing boards. For each NUHS clinical program, we have noted whether the program meets educational requirements for licensure, does not meet educational requirements for licensure, or that a determination has not yet been made.

Other requirements for licensure may include professional board examinations, background checks, and/or fingerprints. Program completion does not guarantee licensure. Students are encouraged to check their state's information and contact the appropriate licensing agency to seek information and additional guidance before applying for licensure. The information presented below is current as of February 9, 2026.



## PROFESSIONAL LICENSURE DISCLOSURES

Professional licensure has different rules and procedures depending on your state, country, or international region of practice. The accredited educational programs at the National University of Health Sciences (NUHS) meet the educational requirements of many licensing boards. For each NUHS clinical program, we have noted whether the program meets educational requirements for licensure, does not meet educational requirements for licensure, or that a determination has not yet been made. Other requirements for licensure may include professional board examinations, background checks, and/or fingerprints. Program completion does not guarantee licensure. Students are encouraged to check their state's information and contact the appropriate licensing agency to seek information and additional guidance before applying for licensure. The information presented below is current as of February 9, 2026.

### Doctor of Chiropractic Medicine (DC degree)

If you plan to practice chiropractic medicine in the U.S., you are required to pass four board examinations administered by the National Board of Chiropractic Examiners (NBCE). Other licensure requirements vary by state and can be found on the American Chiropractic Association's State Licensing Boards website.

States for which the chiropractic medicine program <b>meets</b> educational requirements for licensure:	All 50 states.
States for which the chiropractic medicine program <b>does not meet</b> educational requirements for licensure:	None
States for which a <b>determination has not yet been made</b> regarding the chiropractic medicine program	None

### Doctor of Naturopathic Medicine (ND degree)

To practice as a naturopathic physician in the U.S. or Canada, you must pass the Naturopathic Physicians Licensing Exam (NPLEX) conducted by the North American Board of Naturopathic Examiners (NABNE). State-specific licensure requirements can be found on the Association of Accredited Naturopathic Medical Colleges (AANMC) website.

States for which the naturopathic medicine program <b>meets</b> educational requirements for licensure:	AK, CA, CO, CT, DC, HI, ID, KS, MA, MD, ME, MN, MT, ND, NH, NM, OR, PA, PR, RI, UT, VT, WA, WI
States for which the naturopathic medicine program <b>does not meet</b> educational requirements for licensure:	AZ
States for which a <b>determination has not yet been made</b> regarding the naturopathic medicine program (due to ND practice not regulated and/or no licensure available):	AL, AR, AS, DE, FL, GA, GU, IA, IL, IN, KY, LA, MI, MO, MP, MS, NC, NE, NJ, NV, NY, OH, OK, SC, SD, TN, TX, VA, VI, WV, WY

## Master of Acupuncture (MAc degree)

Most states require the National Certification Commission for Acupuncture and Oriental Medicine (NCCAOM) examination and/or certification for licensing. For information on state-specific requirements, consult the National Certification Commission for Acupuncture and Oriental Medicine.

States for which the acupuncture program <b>meets</b> educational requirements for licensure:	AK, AS, AZ, CO, CT, DC, GA, GU, HI, IA, ID, IL, IN, KS, KY, LA, MA, MD, ME, MI, MN, MO, MP, MS, MT, NC, ND, NE, NH, NJ, NY, OH, OR, PA, RI, SC, TN, UT, VA, VT, WA, WI, WV, WY
States for which the acupuncture program <b>does not meet</b> educational requirements for licensure:	AR, CA, DE, FL, NM, NV, PR, SD, TX
States for which a <b>determination has not yet been made</b> regarding the acupuncture program (due to acupuncture practice not regulated and/or no licensure available):	AL, OK, VI

## Master of Acupuncture with a specialization in Chinese Herbal Medicine (MAc-CHM)

Most states require the National Certification Commission for Acupuncture and Oriental Medicine (NCCAOM) examination and/or certification for licensing. For information on state-specific requirements, consult the National Certification Commission for Acupuncture and Oriental Medicine.

States for which the acupuncture program <b>meets</b> educational requirements for licensure:	AK, AR, AS, AZ, CO, CT, DC, DE, FL, GA, GU, HI, IA, ID, IL, IN, KS, KY, LA, MA, MD, ME, MI, MN, MO, MP, MS, MT, NC, ND, NE, NH, NJ, NM, NV, NY, OH, OR, PA, RI, SC, TN, TX, UT, VA, VT, WA, WI, WV, WY
States for which the acupuncture program <b>does not meet</b> educational requirements for licensure:	CA, PR, SD
States for which a <b>determination has not yet been made</b> regarding the Oriental medicine program (due to Oriental medicine practice not regulated and/or no licensure available):	AL, OK, VI

## Doctor of Acupuncture (DAc degree)

Most states require the National Certification Commission for Acupuncture and Oriental Medicine (NCCAOM) examination and/or certification for licensing. For information on state-specific requirements, consult the National Certification Commission for Acupuncture and Oriental Medicine.

States for which the acupuncture program <b>meets</b> educational requirements for licensure:	AK, AS, AZ, CO, CT, DC, GA, GU, HI, IA, ID, IL, IN, KS, KY, LA, MA, MD, ME, MI, MN, MO, MP, MS, MT, NC, ND, NE, NH, NJ, NY, OH, OR, PA, RI, SC, TN, UT, VA, VT, WA, WI, WV, WY
States for which the acupuncture program <b>does not meet</b> educational requirements for licensure:	AR, CA, DE, FL, NM, NV, PR, SD, TX
States for which a <b>determination has not yet been made</b> regarding the acupuncture program (due to acupuncture practice not regulated and/or no licensure available):	AL, OK, VI

While we are confident that successfully completing each of our programs' requirements will prepare you for your career, completion of an NUHS program does not guarantee licensure or certification to practice, nor does the university or any of its agents guarantee employment upon program completion.

For more information about state licensure requirements for these programs, please contact the associated Assistant Dean.

**Filing a State Licensing Complaint**

In order to file a state licensing complaint for programs at the Illinois site, contact the following: Illinois Board of Higher Education, 1 N. Old State Capitol Plaza, Suite 333, Springfield, IL 62701-1377; 217-782-2551; [www.ibhe.org](http://www.ibhe.org). For the Florida site, contact the following: Commission for Independent Education, 325 W. Gaines Street, Suite 1414, Tallahassee, FL 32399; [CIEINFO@fldoe.org](mailto:CIEINFO@fldoe.org); <https://www.fldoe.org/po11cy/cie/student-concerns.stml>.

**Filing a State SARA Complaint**

Note: Also applies to programs at the Florida site.

Illinois Board of Higher Education  
1 North Old State Capitol Plaza, Suite 333  
Springfield, IL 62701-1377  
(217) 782-2551

Please direct all complaints to IBHE Complaint System: <https://complaints.ibhe.org>

02/03/2026

**NX6318N**

**Clinical Endocrinology**

**Credits 2.0**

This course builds on previously attained knowledge in diagnosis and laboratory medicine, focusing on disorders of the endocrine system. Students will learn how to approach commonly encountered endocrine conditions in naturopathic medicine, such as hypothyroidism and diabetes mellitus. All aspects of endocrine management are covered, from presentation and assessment of symptoms to diagnostic testing and treatment. The use of more experimental tests and therapies and the evidence behind them are approached in a critical sense. Both conventional and naturopathic therapies are reviewed. Students will practice creating treatment protocols following the naturopathic therapeutic order using clinical cases.

Prerequisites: EM6203N, NN5413N, NN6113N

12/11/2025

**COM100**

**Student Success (15 clock hours)**

**Credit 0.0**

This non-credit course will help students to understand how to achieve academic success in a health profession program. The course will help students set academic goals, manage stress, and understand grade point average calculation. The course will also help students develop confidence that they can succeed (a growth mindset) and improve communication skills, study skills, and test taking skills. Students of any program may benefit from this course either before or during their coursework. Course registration closes by Week 6 of each trimester.

12/11/2025

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**Student Success (15 Clock Hours)**

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This non-credit course will help students to understand how to achieve academic success in a health profession program. The course will help students set academic goals, manage stress, and understand grade point average calculation. The course will also help students develop confidence that they can succeed (a growth mindset) and improve communication skills, study skills, and test taking skills. Students of any program may benefit from this course either before or during their coursework. Course registration closes by Week 6 of each trimester.

12/11/2025

**CL4663**

**Clinic Observation 3**

**Credits 2.0**

During this last stage of observation, the students will observe experienced practitioners at either NUHS faculty practice or at external NUHS approved clinics. The observers will have increased involvement with supervised patient interactions. The observers will also familiarize themselves with keeping electronic health records. Stage 3 observers will be familiar with diagnostic procedures, formulating acupuncture therapy protocols and other

treatment modalities with close supervision of acupuncturists. Students are required to complete a Clinic Entrance Exam to progress from Observation 3 (CL4663) into Associate Internship I (CL5571).  
Prerequisites: AC4461, AC4463, CL4561L, CL4462L, OM4408, OM4410

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HY6209N - ND CPR Fee..... \$45.00

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EC6311 Emer Care CPR Fee - DC P2 T2..... \$45.00

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### **Academic Suspension**

A student who receives a third academic probation (cumulative) is placed on academic separation.

In addition, a student who attains a first trimester cumulative GPA below 1.0 may be subject to immediate academic separation in the form of suspension. Extenuating circumstances related to a student's first trimester cumulative GPA include; verified death of an immediate family member, grave personal illness or injury, personal catastrophe, or non-reschedulable military service during the affected trimester.

Should the recommendation be to continue in the program following a prescribed plan for remediation, this shall occur after a mandatory suspension from the program for one to three trimesters. When the decision is to allow a student who has been separated from the program to continue, that student becomes eligible for reinstatement by agreeing to a remediation plan within the current program. Alternatively, or in addition, students may be required to complete further academic development in the form of higher education courses of learning while they are on suspension from the program. Students who are required to enroll in a study skills course for remediation must pass this course with a minimum grade of B (80%). The Dean, in consultation with the Committee on Academic Standards, Grades, and Records, shall approve the remediation plan, and shall also define and approve any further academic development in the form of higher education courses of learning. Once reinstated, these students shall normally be allowed one trimester in which to restore good academic standing. Failure to restore good academic standing by raising the cumulative grade point average to 2.00 or greater at the completion of the remediation trimester will normally result in expulsion from the program. In addition to the above, the accumulation of multiple academic warnings in combination with academic probations can provide cause for an academic review through the Committee on Academic Standards, Grades, and Records that may lead to a recommendation for academic separation from the program. Such a review would be initiated by the Dean.

### **Expulsion**

Academic Expulsion of a student typically represents permanent separation from the program. Expulsion from the university can occur for various reasons including:

- Failure to pass a course after three attempts.
- Attaining a first-trimester cumulative GPA below 0.50.
- Failure to restore good academic standing by raising the cumulative GPA to 2.00 or greater at the completion of a remediation trimester.
- Violation of the Student Code of Conduct

There is no opportunity for re-enrollment or re-instatement in that program. Those wishing to consider enrollment in another program at NUHS may do so by contacting the appropriate Academic Dean in writing. Expulsion may represent permanent separation from the institution when deemed appropriate by the Dean. Appeals to any expulsion reside with the Vice President for Academic Services. A student who has been expelled from a professional program of another institution or the institution itself, if it is a single purpose institution, may be considered for admission to an equivalent program or a different program offered by NUHS. In both instances, the student must meet all admission requirements for entry plus be approved for entry by the

appropriate Academic Dean in writing. Appeals to any decision made by the Dean reside with the Vice President for Academic Services.

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### **Academic Probation**

Academic Probation occurs whenever the cumulative grade point average is less than 2.00. Students on Academic Probation are no longer in good academic standing and are subject to remedial actions intended to improve academic performance. The probationary period is one trimester in length. During the probationary period, students shall not be allowed to participate in off-campus extracurricular activities or receive excused absences to attend activities supported by the University. Students may receive only two cumulative academic probations. A third probation causes academic separation from the program.

Remedial actions are typically prescribed for students as a result of being placed into one of these categories. Such actions are administered through the office of the Dean, in consultation with designated academic advisors. Academic sanctions in the form of suspension or expulsion from the program may also result from a cumulative GPA below 1.0 and/or an accumulation of academic warnings and probation. Such decisions are made by the Dean and may be appealed to the Committee on Academic Standards, Grades, and Records through the Dean's office.

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- 3) Students for whom English is not their primary language must submit proof of proficiency in the English language. For all first professional program applicants (DC, ND, DAc, MAc, MAc-HM) taking the TOEFL exam, a minimum total score of 80 is required. Additionally, a minimum score of 26 on the Speaking section and 22 on the Listening section is required. The University's institution code is 1567. Students who successfully complete coursework in English Composition at a regionally accredited U.S. school may be eligible for a waiver of the TOEFL exam.

**Effective January 21, 2026**, the TOEFL iBT will introduce a new 1-6 scoring scale that aligns with the CEFR, providing a more intuitive report of English proficiency. This new scale will be presented alongside the traditional 0-120 scale for a two-year transition period, with the new overall score being the average of the four section scores (Reading, Listening, Speaking, and Writing), rounded to the nearest half band. Students taking the TOEFL iBT will need to achieve a minimum score of 5 to meet the University's proof of proficiency in the English language.

An additional option to establish English proficiency is Duolingo. Via Duolingo, a minimum overall score of 110 is required. Additionally, a minimum score of 150 on the Speaking section and 120 on the Listening section is required. Students who successfully complete coursework in English Composition at a regionally accredited U.S. school may be eligible for a waiver of the Duolingo exam.

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The Diagnostic Kit Fee (Tri 1 DC-IL, ND) currently lists the cost as \$1,203.00. The correct fee is \$1,283.00.

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**AHM Curriculum Change Proposal Fall 2025**  
**(Adjusted program hours)**

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**Courses of the Doctor of Acupuncture (DAc) Curriculum**

<b>DAc Phase 1: Term 1 (T1)</b>		<b>Lecture Clock Hours</b>	<b>Lab Clock Hours</b>	<b>Clinic Clock Hours</b>	<b>Total Clock Hours</b>	<b>Total Credits</b>
OM4408	Introduction to Herbal Medicine	37.5	0	0	37.5	2.50
OM4410	Physiology of Herbal Medicine	45	0	0	45	3.00
AC4461	Meridian Theory & Point Location 1	30	15	0	45	2.50
AC4463	Meridian Theory & Point Location 2	30	15	0	45	2.50
TM4491	Tui Na (T1 or T2)	0	30	0	30	1.00
TM4492	Asian Body Work (T1 or T2)	0	30	0	30	--
WB4401	Western Medical Terminology	15	0	0	15	1.00
WB4409	Western Anatomy & Physiology (T1 or T2)	22.5	15	0	37.5	2.00
WB4402	Human Anatomy (T1 or T2)	15	45	0	60	2.50
WB4404	Principles of Biochemistry (T1 or T2)	15	0	0	15	1.00
WB4405	Neurology (T1 or T2)	30	0	0	30	--
<b>Total</b>		<b>210</b>	<b>120</b>	<b>0</b>	<b>330</b>	<b>18.00</b>

**DAc Phase 1: Term 2 (T2)**

WB4405	Neurology (T1 or T2)	30	0	0	30	2.00
AC4671	Acupuncture & Clean Needle Technique (T2 or T3)	22.5	15	0	37.5	--
OM4571	Diagnosis & Skills of Herbal Medicine 1 (T2 or T3)	15	15	0	30	1.50
OM4572	Diagnosis & Skills of Herbal Medicine 2 (T2 or T3)	15	15	0	30	--
AC4562	Meridian & Point Energetics 1 (T2 or T3)	30	0	0	30	2.00
AC4564	Meridian & Point Energetics 2 (T2 or T3)	30	0	0	30	--
TM4491	Tui Na (T1 or T2)	0	30	0	30	--
TM4492	Asian Body Work (T1 or T2)	0	30	0	30	1.00
WB4409	Western Anatomy & Physiology (T1 or T2)	22.5	15	0	37.5	--
WB4402	Human Anatomy (T1 or T2)	15	45	0	60	--
WB4404	Principles of Biochemistry (T1 or T2)	15	0	0	15	--
WD4541	Western Physical Exam (T2 or T3)	30	0	0	30	2.00
WD4542	Neuromusculoskeletal Exam (T2 or T3)	0	30	0	30	1.00
WB4511	Microbiology, Immunology & Public Health (T2 or T3)	30	0	0	30	2.00
WB4512	Western Pathology (T2 or T3)	30	0	0	30	--
CL4561	Clinic Observation 1	0	0	60	60	2.00
OM4511	Etiology & Pathogenesis of Herbal Medicine	45	0	0	45	3.00
ID4641	Tai Chi (T2 or T3)	0	30	0	30	1.00
ID4642	Medical Qi Gong (T2 or T3)	0	30	0	30	--
<b>Total</b>		<b>180</b>	<b>105</b>	<b>60</b>	<b>345</b>	<b>17.50</b>

**DAc Phase 1: Term 3 (T3)**

<b>DAc Phase 1: Term 3 (T3)</b>		<b>Lecture Clock Hours</b>	<b>Lab Clock Hours</b>	<b>Clinic Clock Hours</b>	<b>Total Clock Hours</b>	<b>Total Credits</b>
AC4671	Acupuncture & Clean Needle Technique (T2 or T3)	22.5	15	0	37.5	2.00
OM4571	Diagnosis & Skills of Herbal Medicine (T2 or T3)	15	15	0	30	--
OM4572	Diagnosis & Skills of Herbal Medicine (T2 or T3)	15	15	0	30	1.50
AC4562	Meridian & Point Energetics 1 (T2 or T3)	30	0	0	30	--
AC4564	Meridian & Point Energetics 2 (T2 or T3)	30	0	0	30	2.00

WD4541	Western Physical Exam (T2 or T3)	30	0	0	30	--
WD4542	Neuromusculoskeletal Exam (T2 or T3)	0	30	0	30	--
WB4511	Microbiology, Immunology & Public Health (T2 or T3)	30	0	0	30	--
WB4512	Western Pathology (T2 or T3)	30	0	0	30	2.00
CL4662	Clinic Observation 2	0	0	60	60	2.00
CL4663	Clinic Observation 3	0	0	60	60	2.00
AC4672	Acupuncture & Accessory Techniques (T3 or T4)	0	30	0	30	1.00
OM4601	Differential Diagnosis of Herbal Medicine 1 (T3 or T4)	37.5	0	0	37.5	2.50
OM4602	Differential Diagnosis of Herbal Medicine 2 (T3 or T4)	37.5	0	0	37.5	--
ID4641	Tai Chi (T2 or T3)	0	30	0	30	--
ID4642	Medical Qi Gong (T2 or T3)	0	30	0	30	1.00
<b>Total</b>		<b>135</b>	<b>90</b>	<b>120</b>	<b>345</b>	<b>16.00</b>

#### **DAc Phase 2: Term 4 (T4)**

WC5421	Neurophysiology of Acupuncture (T4 or T5)	30	0	0	30	2.00
WD5442	Clinical Laboratory Diagnosis (T4 or T5)	30	0	0	30	--
WC5422	Western Pharmacology & Toxicology (T4 or T5)	30	0	0	30	2.00
CL5471	Associate Internship 1	0	0	60	60	2.00
CL5472	Associate Internship 2	0	0	60	60	2.00
AC4672	Acupuncture & Accessory Techniques (T3 or T4)	0	30	0	30	--
OM4601	Differential Diagnosis of Herbal Medicine 1 (T3 or T4)	37.5	0	0	37.5	--
OM4602	Differential Diagnosis of Herbal Medicine 2 (T3 or T4)	37.5	0	0	37.5	2.50
OM4651	Advanced Diagnosis & Treatment Strategy (T4 or T5)	30	0	0	30	2.00
AC4681	Microsystems & Advanced Acupuncture (T4 or T5)	22.5	15	0	37.5	2.00
AC5452	Acupuncture Treatment Strategy (T4 or T5)	30	0	0	30	2.00
PD5541	Doctor & Patient Relationship (T4 or T5)	30	0	0	30	--
PD4642	Evidence-Based Practice (T4 or T5)	30	0	0	30	--
WD5641	Western Physical Diagnosis (T4 or T5)	30	0	0	30	2.00
WT5655	Western Diet & Nutrition (T4 or T5)	15	0	0	15	--
OM5653	Nutrition & Food Therapy of Herbal Medicine (T4 or T5)	30	0	0	30	2.00
WD5441	Imaging Diagnosis (T4 or T5)	30	0	0	30	--
<b>Total</b>		<b>240</b>	<b>15</b>	<b>120</b>	<b>375</b>	<b>20.50</b>

#### **DAc Phase 2: Term 5 (T5)**

		Lecture Clock Hours	Lab Clock Hours	Clinic Clock Hours	Total Clock Hours	Total Credits
WC5421	Neurophysiology of Acupuncture (T4 or T5)	30	0	0	30	--
WD5442	Clinical Laboratory Diagnosis (T4 or T5)	30	0	0	30	2.00
WC5422	Western Pharmacology & Toxicology (T4 or T5)	30	0	0	30	--
CL5473	Associate Internship 3	0	0	60	60	2.00
CL5474	Associate Internship 4	0	0	60	60	2.00
OM4651	Advanced Diagnosis & Treatment Strategy (T4 or T5)	30	0	0	30	--
AC4681	Microsystems & Advanced Acupuncture (T4 or T5)	22.5	15	0	37.5	--
AC5452	Acupuncture Treatment Strategy (T4 or T5)	30	0	0	30	--
PD5541	Doctor & patient Relationship (T4 or T5)	30	0	0	30	2.00
PD4642	Evidence-Based Practice (T4 or T5)	30	0	0	30	2.00
WD5641	Western Physical Diagnosis (T4 or T5)	30	0	0	30	--
WD5441	Imaging Diagnosis (T4 or T5)	30	0	0	30	2.00
WT5655	Western Diet & Nutrition (T4 or T5)	15	0	0	15	1.00
OM5653	Nutrition & Food Therapy of Herbal Medicine (T4 or T5)	30	0	0	30	--
OS5531	Advanced Seminar 1 (T5 or T6)	30	0	0	30	2.00
OS5632	Advanced Seminar 2 (T5 or T6)	30	0	0	30	--

WI5601	Integrative Medicine (T5 or T6)	22.5	15	0	37.5	--
TM5692	Rehabilitation & Physical Therapy of Herbal Med (T5 or T6)	0	30	0	30	1.00
PD5443	Business, Marketing & Practice Management (T5 or T6)	30	0	0	30	--
WC4523	Psychopathology & Health Psychology (T5 or T6)	30	0	0	30	2.00
TM5591	Advanced Tui Na (T5 or T6)	0	30	0	30	1.00
<b>Total</b>		<b>195</b>	<b>60</b>	<b>120</b>	<b>375</b>	<b>19.00</b>

### **DAc Phase 2: Term 6 (T6)**

CL5581	Acupuncture Senior Internship 1	0	0	60	60	2.00
CL5582	Acupuncture Senior Internship 2	0	0	60	60	2.00
CL5583	Acupuncture Senior Internship 3	0	0	60	60	2.00
CL5584	Acupuncture Senior Internship 4	0	0	60	60	2.00
CL5585	Acupuncture Senior Internship 5	0	0	60	60	2.00
TM5591	Advanced Tui Na (T5 or T6)	0	30	0	30	--
OS5531	Advanced Seminar 1 (T5 or T6)	30	0	-	30	--
OS5632	Advanced Seminar 2 (T5 or T6)	30	0	0	30	2.00
TM5692	Rehabilitation & Physical Therapy of Herbal Med (T5 or T6)	0	30	0	30	--
PD5443	Business, Marketing & Practice Management (T5 or T6)	30	0.	0	30	2.00
WC4523	Psychopathology & Health Psychology (T5 or T6)	30	0	0	30	--
WI5601	Integrative Medicine (T5 or T6)	22.5	15	.	37.5	2.00
DA7301	Doctoral Advanced Seminar 1 (T6, T7, or T8)	30	0	0	30	2.00
DA7403	Biomedical Diagnostics: Imaging Studies & Lab Values (T6, T7, or T8)	45	0	0	45	3.00
DA7501	Patient Communication and Marketing (T6, T7, or T8)	30	0	0	30	2.00
DA7502	Starting a Practice (T6, T7, or T8)	30	0	0	30	2.00
<b>Total</b>		<b>217.5</b>	<b>15</b>	<b>300</b>	<b>532.5</b>	<b>25.00</b>

### **DAc Phase 3: Term 7 (T7) (T6, T7, or T8)**

DA7402	Research Methodology and Biostatistics**	60	0	0	60	4.00
DA7503	Advanced Clinical Applications in Special Populations	45	0	0	45	3.00
DA7504	Public Health	30	0	0	30	2.00
<b>Total</b>		<b>135</b>	<b>0</b>	<b>0</b>	<b>135</b>	<b>9.00</b>

### **DAc Phase 3: Term 8 (T8) (T6, T7, or T8)**

DA7602	Independent Research**	60	0	0	60	4.00
DA7302	Doctoral Advanced Seminar 2	30	0	0	30	2.00
DA7601	Integrating With Your Medical Community	7.5	0	75	82.5	3.00
<b>Total</b>		<b>97.5</b>	<b>0</b>	<b>75</b>	<b>172.5</b>	<b>9.00</b>
<b>Grand Totals</b>		<b>1410</b>	<b>405</b>	<b>795</b>	<b>2610</b>	<b>134</b>

\*\* must be taken in that order.

### **Courses of the Master of Acupuncture (MAc) Curriculum**

#### **MAc Phase 1: Term 1 (T1)**

Lecture Clock Hours	Lab Clock Hours	Clinic Clock Hours	Total Clock Hours	Total Credits
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OM4408	Introduction to Herbal Medicine	37.5	0	0	37.5	2.50
OM4410	Physiology of Herbal Medicine	45	0	0	45	3.00
AC4461	Meridian Theory & Point Location 1	30	15	0	45	2.50
AC4463	Meridian Theory & Point Location 2	30	15	0	45	2.50

TM4491	Tui Na (T1 or T2)	0	30	0	30	1.00
TM4492	Asian Body Work (T1 or T2)	0	30	0	30	--
WB4401	Western Medical Terminology	15	0	0	15	1.00
WB4409	Western Anatomy & Physiology (T1 or T2)	22.5	15	0	37.5	2.00
WB4402	Human Anatomy (T1 or T2)	15	45	0	60	2.50
WB4404	Principles of Biochemistry (T1 or T2)	15	0	0	15	1.00
WB4405	Neurology (T1 or T2)	30	0	0	30	--

**Total** **210** **120** **0** **330** **18.00**

### MAC Phase 1: Term 2 (T2)

WB4405	Neurology (T1 or T2)	30	0	0	30	2.00
AC4671	Acupuncture & Clean Needle Technique (T2 or T3)	22.5	15	0	37.5	--
OM4571	Diagnosis & Skills of Herbal Medicine 1 (T2 or T3)	15	15	0	30	1.50
OM4572	Diagnosis & Skills of Herbal Medicine 2 (T2 or T3)	15	15	0	30	--
AC4562	Meridian & Point Energetics 1 (T2 or T3)	30	0	0	30	2.00
AC4564	Meridian & Point Energetics 2 (T2 or T3)	30	0	0	30	--
TM4491	Tui Na (T1 or T2)	0	30	0	30	--
TM4492	Asian Body Work (T1 or T2)	0	30	0	30	1.00
WB4409	Western Anatomy & Physiology (T1 or T2)	22.5	15	0	37.5	--
WB4402	Human Anatomy (T1 or T2)	15	45	0	60	--
WB4404	Principles of Biochemistry (T1 or T2)	15	0	0	15	--
WD4541	Western Physical Exam (T2 or T3)	30	0	0	30	2.00
WD4542	Neuromusculoskeletal Exam (T2 or T3)	0	30	0	30	1.00
WB4511	Microbiology, Immunology & Public Health (T2 or T3)	30	0	0	30	2.00
WB4512	Western Pathology (T2 or T3)	30	0	0	30	--
CL4561	Clinic Observation 1	0	0	60	60	2.00
OM4511	Etiology & Pathogenesis of Herbal Medicine	45	0	0	45	3.00
ID4641	Tai Chi (T2 or T3)	0	30	0	30	1.00
ID4642	Medical Qi Gong (T2 or T3)	0	30	0	30	--

**Total** **180** **105** **60** **345** **17.50**

### MAC Phase 1: Term 3 (T3)

		Lecture Clock Hours	Lab Clock Hours	Clinic Clock Hours	Total Clock Hours	Total Credits
AC4671	Acupuncture & Clean Needle Technique (T2 or T3)	22.5	15	0	37.5	2.00
OM4571	Diagnosis & Skills of Herbal Medicine (T2 or T3)	15	15	0	30	--
OM4572	Diagnosis & Skills of Herbal Medicine (T2 or T3)	15	15	0	30	1.50
AC4562	Meridian & Point Energetics 1 (T2 or T3)	30	0	0	30	--
AC4564	Meridian & Point Energetics 2 (T2 or T3)	30	0	0	30	2.00
WD4541	Western Physical Exam (T2 or T3)	30	0	0	30	--
WD4542	Neuromusculoskeletal Exam (T2 or T3)	0	30	0	30	--
WB4511	Microbiology, Immunology & Public Health (T2 or T3)	30	0	0	30	--
WB4512	Western Pathology (T2 or T3)	30	0	0	30	2.00
CL4662	Clinic Observation 2	0	0	60	60	2.00
CL4663	Clinic Observation 3	0	0	60	60	2.00
AC4672	Acupuncture & Accessory Techniques (T3 or T4)	0	30	0	30	1.00
OM4601	Differential Diagnosis of Herbal Medicine 1 (T3 or T4)	37.5	0	0	37.5	2.50
OM4602	Differential Diagnosis of Herbal Medicine 2 (T3 or T4)	37.5	0	0	37.5	--
ID4641	Tai Chi (T2 or T3)	0	30	0	30	--
ID4642	Medical Qi Gong (T2 or T3)	0	30	0	30	1.00

**Total** **135** **90** **120** **345** **16.00**

### MAC Phase 2: Term 4 (T4)

WC5421	Neurophysiology of Acupuncture (T4 or T5)	30	0	0	30	2.00
WD5442	Clinical Laboratory Diagnosis (T4 or T5)	30	0	0	30	--
WC5422	Western Pharmacology & Toxicology (T4 or T5)	30	0	0	30	2.00
CL5471	Associate Internship 1	0	0	60	60	2.00
CL5472	Associate Internship 2	0	0	60	60	2.00
AC4672	Acupuncture & Accessory Techniques (T3 or T4)	0	30	0	30	--
OM4601	Differential Diagnosis of Herbal Medicine 1 (T3 or T4)	37.5	0	0	37.5	--
OM4602	Differential Diagnosis of Herbal Medicine 2 (T3 or T4)	37.5	0	0	37.5	2.50
OM4651	Advanced Diagnosis & Treatment Strategy (T4 or T5)	30	0	0	30	2.00
AC4681	Microsystems & Advanced Acupuncture (T4 or T5)	22.5	15	0	37.5	2.00
AC5452	Acupuncture Treatment Strategy (T4 or T5)	30	0	0	30	2.00
PD5541	Doctor & Patient Relationship (T4 or T5)	30	0	0	30	--
PD4642	Evidence-Based Practice (T4 or T5)	30	0	0	30	--
WD5641	Western Physical Diagnosis (T4 or T5)	30	0	0	30	2.00
WT5655	Western Diet & Nutrition (T4 or T5)	15	0	0	15	--
OM5653	Nutrition & Food Therapy of Herbal Medicine (T4 or T5)	30	0	0	30	2.00
WD5441	Imaging Diagnosis (T4 or T5)	30	0	0	30	--
<b>Total</b>		<b>240</b>	<b>15</b>	<b>120</b>	<b>375</b>	<b>20.50</b>

### MAC Phase 2: Term 5 (T5)

		Lecture Clock Hours	Lab Clock Hours	Clinic Clock Hours	Total Clock Hours	Total Credits
WC5421	Neurophysiology of Acupuncture (T4 or T5)	30	0	0	30	--
WD5442	Clinical Laboratory Diagnosis (T4 or T5)	30	0	0	30	2.00
WC5422	Western Pharmacology & Toxicology (T4 or T5)	30	0	0	30	--
CL5473	Associate Internship 3	0	0	60	60	2.00
CL5474	Associate Internship 4	0	0	60	60	2.00
OM4651	Advanced Diagnosis & Treatment Strategy (T4 or T5)	30	0	0	30	--
AC4681	Microsystems & Advanced Acupuncture (T4 or T5)	22.5	15	0	37.5	--
AC5452	Acupuncture Treatment Strategy (T4 or T5)	30	0	0	30	--
PD5541	Doctor & patient Relationship (T4 or T5)	30	0	0	30	2.00
PD4642	Evidence-Based Practice (T4 or T5)	30	0	0	30	2.00
WD5641	Western Physical Diagnosis (T4 or T5)	30	0	0	30	--
WD5441	Imaging Diagnosis (T4 or T5)	30	0	0	30	2.00
WT5655	Western Diet & Nutrition (T4 or T5)	15	0	0	15	1.00
OM5653	Nutrition & Food Therapy of Herbal Medicine (T4 or T5)	30	0	0	30	--
OS5531	Advanced Seminar 1 (T5 or T6)	30	0	0	30	2.00
OS5632	Advanced Seminar 2 (T5 or T6)	30	0	0	30	--
WI5601	Integrative Medicine (T5 or T6)	22.5	15	0	37.5	--
TM5692	Rehabilitation & Physical Therapy of Herbal Med (T5 or T6)	0	30	0	30	1.00
PD5443	Business, Marketing & Practice Management (T5 or T6)	30	0	0	30	--
WC4523	Psychopathology & Health Psychology (T5 or T6)	30	0	0	30	2.00
TM5591	Advanced Tui Na (T5 or T6)	0	30	0	30	1.00
<b>Total</b>		<b>195</b>	<b>60</b>	<b>120</b>	<b>375</b>	<b>19.00</b>

### MAC Phase 2: Term 6 (T6)

CL5581	Acupuncture Senior Internship 1	0	0	60	60	2.00
CL5582	Acupuncture Senior Internship 2	0	0	60	60	2.00
CL5583	Acupuncture Senior Internship 3	0	0	60	60	2.00
CL5584	Acupuncture Senior Internship 4	0	0	60	60	2.00

CL5585	Acupuncture Senior Internship 5	0	0	60	60	2.00
TM5591	Advanced Tui Na (T5 or T6)	0	30	0	30	--
OS5531	Advanced Seminar 1 (T5 or T6)	30	0	-	30	--
OS5632	Advanced Seminar 2 (T5 or T6)	30	0	0	30	2.00
TM5692	Rehabilitation & Physical Therapy of Herbal Med (T5 or T6)	0	30	0	30	--
PD5443	Business, Marketing & Practice Management (T5 or T6)	30	0.	0	30	2.00
WC4523	Psychopathology & Health Psychology (T5 or T6)	30	0	0	30	--
WI5601	Integrative Medicine (T5 or T6)	22.5	15	0	37.5	2.00
<b>Total</b>		<b>82.5</b>	<b>15</b>	<b>300</b>	<b>397.5</b>	<b>16.00</b>
<b>Grand Totals</b>		<b>1042.5</b>	<b>405</b>	<b>720</b>	<b>2167.5</b>	<b>107.00</b>

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### Courses of the Master of Acupuncture, with a specialization in Herbal Medicine (MAC-HM) Curriculum

<b>Mac-HM Phase 1: Term 1 (T1)</b>		<b>Lecture Clock Hours</b>	<b>Lab Clock Hours</b>	<b>Clinic Clock Hours</b>	<b>Total Clock Hours</b>	<b>Total Credits</b>
OM4408	Introduction to Herbal Medicine	37.5	0	0	37.5	2.50
OM4410	Physiology of Herbal Medicine	45	0	0	45	3.00
AC4461	Meridian Theory & Point Location 1	30	15	0	45	2.50
AC4463	Meridian Theory & Point Location 2	30	15	0	45	2.50
TM4491	Tui Na (T1 or T2)	0	30	0	30	1.00
TM4492	Asian Body Work (T1 or T2)	0	30	0	30	--
WB4401	Western Medical Terminology	15	0	0	15	1.00
WB4409	Western Anatomy & Physiology (T1 or T2)	22.5	15	0	37.5	2.00
WB4402	Human Anatomy (T1 or T2)	15	45	0	60	2.50
WB4404	Principles of Biochemistry (T1 or T2)	15	0	0	15	1.00
WB4405	Neurology (T1 or T2)	30	0	0	30	--
<b>Total</b>		<b>210</b>	<b>120</b>	<b>0</b>	<b>330</b>	<b>18.00</b>

### MAC-HM Phase 1: Term 2 (T2)

WB4405	Neurology (T1 or T2)	30	0	0	30	2.00
AC4671	Acupuncture & Clean Needle Technique (T2 or T3)	22.5	15	0	37.5	--
OM4571	Diagnosis & Skills of Herbal Medicine 1 (T2 or T3)	15	15	0	30	1.50
OM4572	Diagnosis & Skills of Herbal Medicine 2 (T2 or T3)	15	15	0	30	--
AC4562	Meridian & Point Energetics 1 (T2 or T3)	30	0	0	30	2.00
AC4564	Meridian & Point Energetics 2 (T2 or T3)	30	0	0	30	--
TM4491	Tui Na (T1 or T2)	0	30	0	30	--
TM4492	Asian Body Work (T1 or T2)	0	30	0	30	1.00
WB4409	Western Anatomy & Physiology (T1 or T2)	22.5	15	0	37.5	--
WB4402	Human Anatomy (T1 or T2)	15	45	0	60	--
WB4404	Principles of Biochemistry (T1 or T2)	15	0	0	15	--
WD4541	Western Physical Exam (T2 or T3)	30	0	0	30	2.00
WD4542	Neuromusculoskeletal Exam (T2 or T3)	0	30	0	30	1.00
WB4511	Microbiology, Immunology & Public Health (T2 or T3)	30	0	0	30	2.00
WB4512	Western Pathology (T2 or T3)	30	0	0	30	--
CL4561	Clinic Observation 1	0	0	60	60	2.00
OM4511	Etiology & Pathogenesis of Herbal Medicine	45	0	0	45	3.00
ID4641	Tai Chi (T2 or T3)	0	30	0	30	1.00
ID4642	Medical Qi Gong (T2 or T3)	0	30	0	30	--
<b>Total</b>		<b>180</b>	<b>105</b>	<b>60</b>	<b>345</b>	<b>17.50</b>

<b>MAC-HM Phase 1: Term 3 (T3)</b>		<b>Lecture Clock Hours</b>	<b>Lab Clock Hours</b>	<b>Clinic Clock Hours</b>	<b>Total Clock Hours</b>	<b>Total Credits</b>
HM4511	Materia Medica 1 (T3, T4, or T5)	45	0	0	45	3.00
HM4512	Materia Medica 2 (T3, T4, or T5)	45	0	0	45	--
HM4513	Materia Medica 3 (T3, T4, T5)	45	0	0	45	--
AC4671	Acupuncture & Clean Needle Technique (T2 or T3)	22.5	15	0	37.5	2.00
OM4571	Diagnosis & Skills of Herbal Medicine (T2 or T3)	15	15	0	30	--
OM4572	Diagnosis & Skills of Herbal Medicine (T2 or T3)	15	15	0	30	1.50
AC4562	Meridian & Point Energetics 1 (T2 or T3)	30	0	0	30	--
AC4564	Meridian & Point Energetics 2 (T2 or T3)	30	0	0	30	2.00
WD4541	Western Physical Exam (T2 or T3)	30	0	0	30	--
WD4542	Neuromusculoskeletal Exam (T2 or T3)	0	30	0	30	--
WB4511	Microbiology, Immunology & Public Health (T2 or T3)	30	0	0	30	--
WB4512	Western Pathology (T2 or T3)	30	0	0	30	2.00
CL4662	Clinic Observation 2	0	0	60	60	2.00
CL4663	Clinic Observation 3	0	0	60	60	2.00
AC4672	Acupuncture & Accessory Techniques (T3 or T4)	0	30	0	30	1.00
OM4601	Differential Diagnosis of Herbal Medicine 1 (T3 or T4)	37.5	0	0	37.5	2.50
OM4602	Differential Diagnosis of Herbal Medicine 2 (T3 or T4)	37.5	0	0	37.5	--
ID4641	Tai Chi (T2 or T3)	0	30	0	30	--
ID4642	Medical Qi Gong (T2 or T3)	0	30	0	30	1.00
<b>Total</b>		<b>180</b>	<b>90</b>	<b>120</b>	<b>390</b>	<b>19.00</b>

#### **MAC-HM Phase 2: Term 4 (T4)**

HM4511	Materia Medica 1 (T3, T4, or T5)	45	0	0	45	--
HM4512	Materia Medica 2 (T3, T4, or T5)	45	0	0	45	3.00
HM4513	Materia Medica 3 (T3, T4, T5)	45	0	0	45	--
WC5421	Neurophysiology of Acupuncture (T4 or T5)	30	0	0	30	2.00
WD5442	Clinical Laboratory Diagnosis (T4 or T5)	30	0	0	30	--
WC5422	Western Pharmacology & Toxicology (T4 or T5)	30	0	0	30	2.00
CL5471	Associate Internship 1	0	0	60	60	2.00
CL5472	Associate Internship 2	0	0	60	60	2.00
AC4672	Acupuncture & Accessory Techniques (T3 or T4)	0	30	0	30	--
OM4601	Differential Diagnosis of Herbal Medicine 1 (T3 or T4)	37.5	0	0	37.5	--
OM4602	Differential Diagnosis of Herbal Medicine 2 (T3 or T4)	37.5	0	0	37.5	2.50
OM4651	Advanced Diagnosis & Treatment Strategy (T4 or T5)	30	0	0	30	2.00
AC4681	Microsystems & Advanced Acupuncture (T4 or T5)	22.5	15	0	37.5	2.00
AC5452	Acupuncture Treatment Strategy (T4 or T5)	30	0	0	30	2.00
PD5541	Doctor & Patient Relationship (T4 or T5)	30	0	0	30	--
PD4642	Evidence-Based Practice (T4 or T5)	30	0	0	30	--
WD5641	Western Physical Diagnosis (T4 or T5)	30	0	0	30	2.00
WT5655	Western Diet & Nutrition (T4 or T5)	15	0	0	15	--
OM5653	Nutrition & Food Therapy of Herbal Medicine (T4 or T5)	30	0	0	30	2.00
WD5441	Imaging Diagnosis (T4 or T5)	30	0	0	30	--
<b>Total</b>		<b>285</b>	<b>15</b>	<b>120</b>	<b>420</b>	<b>23.50</b>

<b>MAc-HM Phase 2: Term 5 (T5)</b>		<b>Lecture Clock Hours</b>	<b>Lab Clock Hours</b>	<b>Clinic Clock Hours</b>	<b>Total Clock Hours</b>	<b>Total Credits</b>
HM4511	Materia Medica 1 (T3, T4, or T5)	45	0	0	45	--
HM4512	Materia Medica 2 (T3, T4, or T5)	45	0	0	45	--
HM4513	Materia Medica 3 (T3, T4, T5)	45	0	0	45	3.00
WD5442	Clinical Laboratory Diagnosis (T4 or T5)	30	0	0	30	2.00
WC5422	Western Pharmacology & Toxicology (T4 or T5)	30	0	0	30	--
CL5473	Associate Internship 3	0	0	60	60	2.00
CL5474	Associate Internship 4	0	0	60	60	2.00
OM4651	Advanced Diagnosis & Treatment Strategy (T4 or T5)	30	0	0	30	--
AC4681	Microsystems & Advanced Acupuncture (T4 or T5)	22.5	15	0	37.5	--
AC5452	Acupuncture Treatment Strategy (T4 or T5)	30	0	0	30	--
PD5541	Doctor & patient Relationship (T4 or T5)	30	0	0	30	2.00
PD4642	Evidence-Based Practice (T4 or T5)	30	0	0	30	2.00
WD5641	Western Physical Diagnosis (T4 or T5)	30	0	0	30	--
WD5441	Imaging Diagnosis (T4 or T5)	30	0	0	30	2.00
WT5655	Western Diet & Nutrition (T4 or T5)	15	0	0	15	1.00
OM5653	Nutrition & Food Therapy of Herbal Medicine (T4 or T5)	30	0	0	30	--
OS5531	Advanced Seminar 1 (T5 or T6)	30	0	0	30	2.00
OS5632	Advanced Seminar 2 (T5 or T6)	30	0	0	30	--
WI5601	Integrative Medicine (T5 or T6)	22.5	15	0	37.5	--
TM5692	Rehabilitation & Physical Therapy of Herbal Med (T5 or T6)	0	30	0	30	1.00
PD5443	Business, Marketing & Practice Management (T5 or T6)	30	0	0	30	--
WC4523	Psychopathology & Health Psychology (T5 or T6)	30	0	0	30	2.00
TM5591	Advanced Tui Na (T5 or T6)	0	30	0	30	1.00
<b>Total</b>		<b>240</b>	<b>60</b>	<b>120</b>	<b>420</b>	<b>22.00</b>

### **MAc-HM Phase 2: Term 6 (T6)**

HM4514	Herbal Pharmacy Practicum	0	30	0	30	1.00
HM5511	Herbal Formula 1 (T6 or T7)	45	0	0	45	3.00
HM5512	Herbal Formula 2 (T6 or T7)	45	0	0	45	--
CL5581	Acupuncture Senior Internship 1	0	0	60	60	2.00
CL5582	Acupuncture Senior Internship 2	0	0	60	60	2.00
CL5583	Acupuncture Senior Internship 3	0	0	60	60	2.00
CL5584	Acupuncture Senior Internship 4	0	0	60	60	2.00
CL5585	Acupuncture Senior Internship 5	0	0	60	60	2.00
TM5591	Advanced Tui Na (T5 or T6)	0	30	0	30	--
OS5531	Advanced Seminar 1 (T5 or T6)	30	0	-	30	--
OS5632	Advanced Seminar 2 (T5 or T6)	30	0	0	30	2.00
TM5692	Rehabilitation & Physical Therapy of Herbal Med (T5 or T6)	0	30	0	30	--
PD5443	Business, Marketing & Practice Management (T5 or T6)	30	0	0	30	2.00
WC4523	Psychopathology & Health Psychology (T5 or T6)	30	0	0	30	--
WI5601	Integrative Medicine (T5 or T6)	22.5	15	0	37.5	2.00
<b>Total</b>		<b>127.5</b>	<b>45</b>	<b>300</b>	<b>472.5</b>	<b>20.00</b>

**MAC-HM Phase 3: Term 7 (T7)**

		Lecture Clock Hours	Lab Clock Hours	Clinic Clock Hours	Total Clock Hours	Total Credits
HM5511	Herbal Formula 1 (T6 or T7)	45	0	0	45	--
HM5512	Herbal Formula 2 (T6 or T7)	45	0	0	45	3.00
HM6523	Classics of Herbal Medicine (T7 or T8)	45	0	0	45	--
CL5591L	Herbal Associate Integrative Internship 1	0	0	30	30	1.00
CL5592L	Herbal Associate Integrative Internship 2	0	0	30	30	1.00
CL5593L	Herbal Associate Integrative Internship 3	0	0	30	30	1.00
HM5513	Herbal Patent Medicine (T7 or T8)	15	0	0	15	1.00
WT6456	Botanical Medicine (T7 or T8)	60	0	0	60	--
HM6454	Herbal Treatment Strategy (T7 or T8)	45	0	0	45	3.00
HM6524	Integration of Herbal Medicine (T7 or T8)	30	0	0	30	2.00
HS6531	Herbal Seminar 1 (T7 or T8)	30	0	0	30	2.00
HS6532	Herbal Seminar 2 (T7 or T8)	30	0	0	30	--
HS6533	Herbal Seminar 3 (T7 or T8)	30	0	0	30	--
<b>Total</b>		<b>165</b>	<b>0</b>	<b>90</b>	<b>255</b>	<b>14.00</b>

**MAC-HM Phase 3: Term 8 (T8)**

HM6523	Classics of Herbal Medicine (T7 or T8)	45	0	0	45	3.00
CL6601L	Herbal Senior Integrative Internship 1	0	0	30	30	1.00
CL6602L	Herbal Senior Integrative Internship 2	0	0	30	30	1.00
CL6603L	Herbal Senior Integrative Internship 3	0	0	30	30	1.00
CL6604L	Herbal Senior Integrative Internship 4	0	0	30	30	1.00
HM5513	Herbal Patent Medicine (T7 or T8)	15	0	0	15	--
WT6456	Botanical Medicine (T7 or T8)	60	0	0	60	4.00
HM6454	Herbal Treatment Strategy (T7 or T8)	45	0	0	45	--
HM6524	Integration of Herbal Medicine (T7 or T8)	30	0	0	30	--
HS6531	Herbal Seminar 1 (T7 or T8)	30	0	0	30	--
HS6532	Herbal Seminar 2 (T7 or T8)	30	0	0	30	2.00
HS6533	Herbal Seminar 3 (T7 or T8)	30	0	0	30	2.00
<b>Total</b>		<b>165</b>	<b>0</b>	<b>120</b>	<b>285</b>	<b>15.00</b>
<b>Grand Totals</b>		<b>1552.5</b>	<b>435</b>	<b>930</b>	<b>2917.5</b>	<b>149.00</b>

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**NN5418****Human Metabolism and Nutrition****Credits 1.0**

Dietary assessment of the macronutrients (carbohydrates, fats, proteins) and micronutrients (vitamins, minerals) will be reviewed along with application of their individual and integrated physiological roles in metabolism with an emphasis on pathways and their relationships to hormonal and dietary regulation through anabolic vs catabolic states. Lipid metabolism will emphasize dietary sources of fats for fuel, energy, and storage, compared against the essential fatty acid signaling molecules of the inflammatory eicosanoid pathway. Carbohydrate metabolism will assess simple vs complex dietary sugars and their different physiological effects on achieving, sustaining, or losing euglycemia. Protein metabolism will emphasize nitrogen balance and synthesis reactions supported through essential vitamin and mineral dependent pathways. Essential nutrient functional roles in antioxidant and mitochondrial function will be reviewed alongside dietary strategies of achieving and sustaining optimal health.

Prerequisite: BC5308

Co-requisite: BC5409

09/29/2025