



 **SONORAN UNIVERSITY**  
OF HEALTH SCIENCES

# COURSE CATALOG

**2022-2023**

Academic Year



**SONORAN  
UNIVERSITY**  
OF HEALTH SCIENCES

## Course Catalog

### **Sonoran University of Health Sciences**

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Phone: 480.858.9100 | Fax: 480.858.9116

[www.sonoran.edu](http://www.sonoran.edu)

### **College of Naturopathic Medicine**

Phone: 480.222.1136 | [admissions@Sonoran.edu](mailto:admissions@Sonoran.edu)

### **College of Nutrition**

Phone: 480.809.9738 | [online@Sonoran.edu](mailto:online@Sonoran.edu)

### **Ric Scalzo Institute for Botanical Research**

2140 East Broadway Road, Tempe, AZ 85282

[www.sonoran.edu/research](http://www.sonoran.edu/research) | [research@Sonoran.edu](mailto:research@Sonoran.edu)

### **Neil Riordan Center for Regenerative Medicine**

2152 East Broadway Road, Tempe, AZ 85282

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[patients.sonoran.edu](http://patients.sonoran.edu) | [psr@Sonoran.edu](mailto:psr@Sonoran.edu)

### **Sonoran University Medical Center**

2164 East Broadway Road, Tempe, AZ 85282

Phone: 480.970.0000 | Fax: 480.970.0003

[patients.sonoran.edu](http://patients.sonoran.edu) | [psr@Sonoran.edu](mailto:psr@Sonoran.edu)

### **Sonoran University Medical Center Laboratory**

2164 East Broadway Road, Tempe, AZ 85282

Phone: 480.222.9818 | Fax: 480.970.0658

[patients.sonoran.edu](http://patients.sonoran.edu) | [lab@Sonoran.edu](mailto:lab@Sonoran.edu)

### **Sonoran University Medicinary**

2152 East Broadway Road, Tempe, AZ 85282

Phone: 480.970.0001 | Fax: 480.970.1660

[azmedicinary.com](http://azmedicinary.com) | [medicinary@Sonoran.edu](mailto:medicinary@Sonoran.edu)

**Editor:** Gina Anderson

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Sonoran University is a tax-exempt, not-for-profit corporation accredited by the Higher Learning Commission (HLC) and approved to offer degrees by the Arizona Naturopathic Physicians Board of Medical Examiners and Arizona State Board of Private Postsecondary Education. Sonoran University's Doctor of Naturopathic Medicine (ND) program is accredited by the Council on Naturopathic Medical Education (CNME). In addition to the ND program, HLC has approved Sonoran University to offer distance education courses and programs, including the Master of Science in Clinical Nutrition (MSCN) and Master of Science in Nutrition Business Leadership (MSNBL). Sonoran University's MS in Clinical Nutrition program fulfills the didactic requirements to sit for the Certified Nutrition Specialist (CNS) exam and has been approved for CNS candidates to earn 324 hours and meet required competencies for the Supervised Practice Experience (SPE) (see Academic Accreditations and MSCN and MSNBL Program Information to learn more about accreditation and certification).

Sonoran University does not discriminate on the basis of race, ethnicity, gender, social-economic background, religion, sexual orientation, gender expression or identity, age, disability, veteran status, nationality, thinking styles, or life experiences in the administration of educational policies, admission policies, financial aid, employment, or any other program or activity.

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# President's Message

## President's Welcome to Sonoran University of Health Sciences



You hold in your hands the inaugural Sonoran University of Health Sciences catalog. Since the new catalog isn't that different from its predecessors, you might wonder, "How is Sonoran University different from SCNM"? These changes, subtle at first, will be increasingly apparent as Sonoran University's growth, diversity and interconnectedness accelerates over the next five years.

Sonoran University's strategic plan will increase interprofessional learning, with faculty teaching and students learning across disciplines. Picture it as a more diverse and enriched intellectual ecosystem. Similarly, in patient care, naturopathic medical students and nutrition students will collaborate (and other professions as we launch new degree programs) to provide patients a wider range of treatments.

Another benefit that academic diversity brings comes from a phenomenon described in James Surowiecki's book *The Wisdom of Crowds*. Simply stated, harnessing the collective experience of a wide-ranging group of individuals working together yields better solutions. For example, Sonoran University's growing and increasingly diverse faculty and learning specialists share their collective experiences and knowledge of learning science to enrich the student-centered experience.

Changes ahead will be profound across higher education. The abrupt adaptations – to teaching, learning, and to work in general – opened our eyes to what was possible, and they are here to stay. Sonoran University of Health Sciences will not go back to business as usual. We will go forward and continue to innovate for our students, our patients, and the communities we serve. Join us, let's shape the future together.

Yours in health,

A handwritten signature in black ink that reads "Paul Mittman". The signature is fluid and cursive, with a long, sweeping underline.

Paul Mittman, ND, EdD  
President & CEO, Sonoran University of Health Sciences



# Vision, Mission, Core Values & Strategic Plan

## Vision

A world that embraces the healing power of nature.

## Mission Statement

Sonoran University of Health Sciences shapes a healthier future by supporting students as they train to excel as healthcare professionals, by enhancing the health and wellbeing of our patients and communities, and by discovering effective treatments for humanity grounded in the healing power of nature.

## Value Proposition

Challenge your mind and engage your heart to change lives through healthcare at a school of medicine and health sciences renowned for its dynamic culture of innovation and collaboration.

## Core Values

Sonoran University embraces the following values:

### We Shape the Future

- With Purpose: Educating the next generation of evidence-based healers and leaders
- Through Collaborations: Embracing interprofessional relationships
- By Expanding Knowledge: Conducting research that improves health and well-being
- Through Evidence-based Principles: While honoring the past

### We Achieve Excellence

- By Pursuing Greatness: Setting the bar high—and exceeding it
- Through Continuous Improvement: Enhancing the Sonoran University experience through innovation and persistence
- By Celebrating Accomplishments: Appreciating achievements with humility and gratitude

### We Love

- By Practicing Inclusivity: Embracing diversity with kindness, respect, and understanding
- Through Self-Awareness: Recognizing our inherent biases to expand our capacity to serve
- By Projecting Positivity: Providing hope and encouragement
- Through Compassion: Serving individuals, communities, and humanity

### We Do the Right Thing

- By Being Principle-driven: Guiding our actions through honesty and integrity
- Through Honoring Commitments: Saying what we do and doing what we say
- By Accepting Responsibility: Holding ourselves and others accountable
- By Following the Golden Rule: Treating others as we want to be treated

### We Are Resilient

- By Never Giving Up: Finding solutions through tenacity and teamwork
- Through Appreciative Inquiry: Identifying our best practices to overcome challenges
- Through Wellness: Promoting physical, mental, and emotional health
- With Mindfulness: Finding calm in the face of adversity



# Vision, Mission, Core Values & Strategic Plan

## Strategic Plan 2022-2027

Sonoran University's 2022-2027 Strategic Plan envisions a vibrant future for our institution where we are renowned for our leadership in higher education health professions. The full plan can be found on MySonoran at [https://my.sonoran.edu/ICS/Campus\\_Life/Campus\\_Leadership/](https://my.sonoran.edu/ICS/Campus_Life/Campus_Leadership/)

## Sonoran University is Renowned For

- **Student-Centeredness** – empowering and supporting students to engage in a learning process that sparks curiosity, develops critical thinking, and respects their unique attributes and capabilities
- **Grounding in the Healing Power of Nature** – fostering the self-healing process in people and uncovering the health-promoting properties of medicinal plants
- **Strategic Partnerships** – with other academic, research, healthcare institutions, governmental and non-profit agencies, and businesses to expand the University's role in addressing health problems
- **Values-Based Education and Care** – applying our Core Values, “We Shape the Future, We Love, We Achieve Excellence, We Do the Right Thing, We Are Resilient” to the way we think, speak, and act
- **Interprofessional Synergy** – within the university, faculty, practitioners, and researchers who collaborate across disciplines to enhance learning, patient care, and discovery
- **Inclusive Excellence and Belonging** – a community that values the range of human experiences and where students, staff, faculty, and patients feel respected, included, supported, and valued
- **Innovative and Exceptional Education** – grounded in learning science and driven by data insights
- **Inclusive and Holistic Healthcare** practiced in the campus and community medical centers

## Three Strategic Imperatives

### Delivering best-in-class Graduate and Certificate education

The University is measured by the success of its students, including graduation rates and professional examination scores. The University supports student learning by drawing upon learning science to incorporate best practices in teaching and learning, innovative technology and curricular design, faculty support and development, and

collaboration between Academic, Student Affairs and Inclusive Excellence departments.

### Engaging in impactful research

The University's research agenda is multi-faceted in that we are committed to investigating: 1) Medicinal plants – which already comprise 10% of the World Health Organization Model List of Essential Medicines – representing a rich source of medicines to treat current and emerging diseases; and 2) Lifestyle and other therapeutic interventions to address preventable illness and premature death.

### Serving individuals and community through patient-centered care

During the pandemic, the public adopted healthcare innovations (e.g., telehealth), gained a deeper appreciation of stress and mental health, and saw healthcare equity gaps widen. Over the next five years, Sonoran University of Health Sciences will increase its investment in telehealth, deepen its commitment to cultural competence and inclusive excellence in the communities it serves, and continue to infuse patient care with evidence-based and patient-empowering treatments.

## With the Resources to Succeed

### Expanding resources critical to the University's vibrant future

*Fulfilling our audacious goals – including changing the institution's name and brand – will require increased human and financial resources, and investments in training, technology, and philanthropic support.*

# Institutional Information

## Institutional Learning Outcomes

Graduates of all Sonoran University of Health Sciences programs are expected to demonstrate the following knowledge, skills, and attitudes upon completion of their prescribed program:

1. Depth and breadth of knowledge of their discipline
2. Application of basic sciences to their field of study
3. Ethics and professionalism
4. Skills for scholarship and lifelong learning

## Institutional Information

### Location

Sonoran University's main campus, including the research institute and two medical facilities, are located in Tempe, Arizona - a sophisticated city of culture and learning. Known as the home of Arizona State University, Tempe is a rich college atmosphere and an abundance of affordable housing, research, and entertainment opportunities. It is the ideal place to learn, live, work, and play.

### Phoenix

Tempe is part of the Greater Phoenix Metro area, one of the top ten largest metropolitan areas in the United States. The "Valley of the Sun" has the diversity of big-city life without the big-city cost. Among these assets are flat terrain, simple transportation routes, and a light-rail system. Not only is the transportation system evolving, but the housing communities provide comfortable, affordable homes for new and longtime residents.

With 300 days of sunshine each year, the Phoenix Metro area is a haven for outdoor enthusiasts. Students enjoy hiking, biking, boating, swimming, golf, tennis, horseback riding, and even skiing and snowboarding during the winter months in beautiful northern Arizona. They also enjoy weekend and day trips to breathtaking Sedona, Tucson, the Grand Canyon, Mogollon Rim, and the White Mountains.

Entertainment venues, fine dining, and shopping settings are plentiful, as well as countless golf courses. Along with the cosmopolitan treasures of the Herberger Theatre, Ballet Arizona, The Phoenix Symphony, and the world-renowned Heard Museum, the cities that make up Greater Phoenix are home to numerous professional sports teams including the Arizona Cardinals, Phoenix Suns, Arizona Diamondbacks, and Phoenix Coyotes. Tempe is also a sports mecca with the ASU Sun Devils, spring training for

Major League Baseball, the annual Rock 'N Roll Arizona Marathon, and the Ironman Arizona Triathlon.

Phoenix is fortunate to be a growing city with a healthy economy. Uniquely, the cost of living in Phoenix and Tempe is lower relative to other metropolitan cities housing naturopathic colleges.

### Sonoran University Community

The Tempe campus includes the Sonoran University Medical Center and Neil Riordan Center for Regenerative Medicine located in our Lim Commons, which convey the excitement and enthusiasm that the staff, faculty, and students bring to our community. Sonoran University is a highly respected source of information in the natural healthcare field. Our faculty, staff, and administrators collaborate to deliver a bold, innovative, and dynamic education. Those who spend time on campus know that Sonoran University's sense of community makes these goals a reality.

The Mr. Andrew C.G. and Dr. Ruth Tan Lim Commons (Lim Commons), a LEED platinum-certified building, features the integrative Neil Riordan Center for Regenerative Medicine, teaching kitchen, yoga studio, an extensive medical library, Borneman Board Room with high-definition teleconferencing, Thorne Auditorium, classrooms, 18 group study/meeting rooms, weight and cardio room, student lounge, wellness rooms, café, and the Sonoran University Medicinary. The first building of its kind at any naturopathic college, the Lim Commons engages the public as it reshapes the university experience. Sonoran University's campus also generates clean electricity, provides shade, and reduces energy costs through the installation of solar-panel-covered structures over 80% of all parking spaces. Abundant light, evidence-based design, and sustainable and non-toxic materials create an atmosphere that delights the eye as it inspires healing, learning, and community engagement. The top-of-the-line Steelcase furnishings are functional and environmentally sustainable, providing students, patients, and the public comfortable and ergonomically sound seating throughout the Lim Commons. The academic buildings are well-equipped to serve the needs of the community. Sonoran University classrooms, medical facilities, and Lim Commons are equipped with presentation technology and wireless internet. In addition, computers are available for student use throughout the library and at the Medical Center. To top it all off, the beauty of the medicinal gardens creates an atmosphere for community learning, campus events, and medical conferences. The gardens also provide botanicals for classroom instruction and lab experiences.

Founded principally by naturopathic physicians Michael and Kyle Cronin as Southwest College of Naturopathic Medicine & Health Sciences in 1992, Sonoran University is one of five

# Institutional Information

recognized institutions of naturopathic medicine in North America. It is also the first medical school in the Phoenix Metropolitan area.

Prospective students are invited to experience Sonoran University by touring the campus and/or sitting in on a class or a clinical shift. For more information, please visit the Sonoran University website or call the College of Naturopathic Medicine at 480.222.1136 or College of Nutrition at 480.809.9738 to speak with an admission representative and schedule your visit.

## Student Community

The student community at Sonoran University includes individuals from diverse backgrounds and experiences with a shared commitment to integrative and natural healthcare. Student demographic information is available on the Student Consumer Information page on the Sonoran University website.

## Sonoran University Medical & Research Facilities

### Neil Riordan Center for Regenerative Medicine

For two generations the name Riordan has been synonymous with medical advances harnessing the body's innate healing ability. Sonoran University's Neil Riordan Center for Regenerative Medicine builds on this legacy, turning the tide from symptom suppression to regeneration and healing. The Neil Riordan Center for Regenerative Medicine is located in a beautiful 6,200 square foot space on the ground floor of the Lim Commons building. Through patient care, research, and medical education, Neil Riordan Center for Regenerative Medicine helps to usher in a new era in the treatment of pain and chronic disease by:

- Developing innovative, safe, effective, and promising practices for patients suffering from pain
- Training the next generation of physicians skilled in regenerative medicine
- Building the foundation for *in vitro* and clinical research in regenerative medicine to explore new treatments and explicate their mechanisms of action

### Ric Scalzo Institute for Botanical Research

The Institute's Mission is to explore traditional medicines at the cellular, molecular, and cultural levels to create novel botanical solutions that support People, Plants, and Planet. The Ric Scalzo Institute for Botanical Research, a state-of-the-art molecular biology/phytochemistry laboratory opened in the Spring of 2021. The Institute works in collaboration with the natural products industry, foundations, and other academic institutions and labs to develop new products and improve existing botanical therapeutics through scientific exploration grounded in clinical and traditional herbalism's rich history. The Institute houses multiple laboratory facilities including a Biosafety Level 2 molecular and cellular biology laboratory with cell/virus culture capabilities, a compound isolation laboratory, and a compound identification and quantification facility. Bioassay-guided characterization, purification, and isolation of botanicals is a proven process that our research team utilizes to achieve success in creating novel, evidence-based natural products.

### Sonoran University Medical Center

The Sonoran University Medical Center is a fragrance-free facility consisting of natural and recycled building materials and non-toxic paint. It is designed to support and enhance patient care and student learning through indoor healing spaces.

The Medical Center creates a clinical environment unique to any naturopathic clinical setting. Hydrotherapy, a core modality in naturopathic medicine and an important component of European water spas, comprises nearly thirty percent of the Center and includes a custom-designed steam area, two saunas (far-infrared/radiant), and a hydrotherapy/color therapy suite. There are also two minor surgery suites with high-definition video equipment for recording or transmitting certain procedures, with patient consent, for learning purposes. Intravenous therapies, which can be a prominent treatment method for many health conditions, are provided in the IV Suite.

### Equipment and Technology

In addition to serving patients' health needs, the Sonoran University Medical Center and Neil Riordan Center for Regenerative Medicine are the on-campus training sites for naturopathic medical students' clinical training. Designed



# Institutional Information

with video technology in each of the 7 classrooms and 37 exam rooms, the Sonoran University medical facilities support student learning in the clinical environment. Corporate sponsors donated large LCD monitors to each classroom which enhance the physicians' ability to use online resources, display a patient's electronic health record (EHR), and closed-circuit observation of exam rooms when appropriate. This technology allows students to gain immediate feedback from their attending physician. In addition, state-of-the-art medical equipment in each exam room was donated by Welch-Allyn. Naturopathic medical student learning is supported through the Clinical Resource Center, a specialized clinical collection that is an extension of the Sonoran University Library. The collection features resources in naturopathic modalities including acupuncture, botanical medicine, nutrition, homeopathy, hydrotherapy, and environmental, physical, and mind-body medicine. The Library subscribes to electronic books, journals, and specialized medical, naturopathic, and nutrition databases that supplement the on-campus print resources.

Sonoran University was the first naturopathic medical school to implement an EHR system in 2010. The utilization of EHR increases medical research opportunities and enhances patient benefits through electronic record keeping and communication among the Medical Facility physicians and other healthcare providers. Sonoran University recently updated the system to eClinicalWorks. This new system supports a patient portal and telemedicine.

## Sonoran University Laboratory

The Sonoran University Laboratory is a CLIA moderate complexity laboratory and is accredited by COLA. Students are required to participate in laboratory posts in which they gain a finer understanding of laboratory diagnostic tests, as well as OSHA and CLIA standards. While on laboratory post, naturopathic medical students have the opportunity to collect and prepare samples and perform CLIA-waived testing.

While some laboratory testing is done on site, the Medical Center laboratory also contracts with Laboratory Corporation of America (LabCorp) and Sonora Quest Laboratories for standard diagnostic tests. The laboratory utilizes 15 additional specialty labs for testing not available at LabCorp or Sonora Quest.

## Sonoran University Medicinary

The Sonoran University Medicinary, located in the Lim Commons, is Arizona's largest natural medicinary with the largest inventory of homeopathic medicines and botanical tinctures in Arizona. Naturopathic medical students are

required to complete a one-credit course in which they learn about how the Medicinary operates. Covered topics include choosing high-quality supplements, safety and prescribing of botanical tinctures, inventory management, providing customer service, and more. The Medicinary serves the patients of in-house physicians, providers across the Greater Phoenix area, and the general public.

## Virtual Center for Personalized Nutrition

Leveraging high quality and evidence-based care standards, our Virtual Center for Personalized Nutrition engages clients on a Virtual Care Journey that retains the best-practices of in-person personalized nutrition care delivered at no cost through our virtual care setting. The Center eliminates traditional barriers to personalized nutrition care by increasing access and eliminating costs. Through our telehealth platform, we are connecting our providers to clients in need of nutrition care from across the country.

Our care team consists of masters or doctoral degree level nutrition providers who are all candidates enrolled in our Supervised Practice Experience Program (SPE). Each provider is completing an internship in pursuit of their Certified Nutrition Specialist® (CNS®) credential and working under the direct supervision of licensed clinical nutritionists who hold appointments as Clinical Faculty within the College of Nutrition at Sonoran University and have been vetted and approved as SPE Clinical Supervisors by the Board for Certification of Nutrition Specialists.

# Institutional Information

## Naturopathic Extended Site Community Clinics

Naturopathic Medicine students may also receive their clinical training at community clinics. These clinics give students unique opportunities to provide treatment and gain skills and experience in a community healthcare setting and enhance their cultural competence working with diverse patient populations. Treatments often include nutritional intervention, clinical nutrition, botanical medicine, physical medicine, acupuncture, homeopathy, and prescription medicines when necessary. To learn more about Sonoran University's Community Clinics, please visit

### **Sage Foundation for Health**

[www.sage.sonoran.edu](http://www.sage.sonoran.edu)

### **Hamilton Elementary School**

[www.sage.sonoran.edu/community-clinics/hamilton-elementary-school](http://www.sage.sonoran.edu/community-clinics/hamilton-elementary-school)

### **Mission of Mercy**

[www.amissionofmercy.org/arizona](http://www.amissionofmercy.org/arizona)

### **Phoenix Rescue Mission – Changing Lives**

[www.sage.sonoran.edu/community-clinics/changing-lives](http://www.sage.sonoran.edu/community-clinics/changing-lives)

### **Roosevelt Health Center**

<https://sage.sonoran.edu/community-clinics/roosevelt-health-center/>

### **Sojourner Center**

[www.sage.sonoran.edu/community-clinics/sojourner-center](http://www.sage.sonoran.edu/community-clinics/sojourner-center)

### **Southwest Center**

<https://sage.sonoran.edu/community-clinics/southwest-center/>

## Oversight

### Academic Accreditation

The Arizona State Board of Private Postsecondary Education granted a license to Sonoran University as a degree-granting institution in April 1993 to offer the Doctor of Naturopathic Medicine program. In October 2018, Sonoran University was granted a license to offer the Master of Science in Clinical Nutrition and Master of Science in Nutrition Business Leadership programs.

Sonoran University's naturopathic medical program is accredited by the Council on Naturopathic Medical Education (CNME), the programmatic accreditor for naturopathic medicine programs. A copy of the CNME Handbook for Accreditation for Naturopathic Medical Colleges and Programs is available in the Library.

Sonoran University's doctorate and master's programs are also accredited by the Higher Learning Commission (HLC), including the Doctor of Naturopathic Medicine, Master of Science in Clinical Nutrition, and Executive Master of Science in Nutrition Business Leadership.

#### ***For additional information, please contact:***

#### **Arizona State Board for Private Postsecondary Education**

1740 West Adams, Suite 3008, Phoenix, AZ 85007  
Phone: 602.542.5709 | <https://ppse.az.gov/>

#### **Council on Naturopathic Medical Education**

342 Main Street, PO Box 178, Great Barrington, MA 01230  
Phone: 413.528.8877 | Fax: 413.528.8880  
[www.cnme.org](http://www.cnme.org)

#### **Higher Learning Commission**

230 South LaSalle Street, Suite 7-500, Chicago, IL 60604  
Phone: 312.263.0456 | Fax: 312.263.7462  
[www.hlcommission.org](http://www.hlcommission.org)

# Academic Calendar

## Academic Calendar

### Fall Quarter

October 3 - December 25, 2022

Aug 8	Fall Online Orientation Opens (all programs)
Sep 26 - 30	ND LIVE New Student Orientation (NSO)
Oct 3	Fall Classes Begin
Oct 3 - 6	MS Add/Drop Session A Courses
Oct 3 - 14	ND / MS Session C Add/Drop Didactic Courses
Oct 7	Last day to pay tuition & fees
<b>Nov 11</b>	<b>Veterans Day - College / MC Closed</b>
Nov 13	MS Mid Quarter - End of Session A
Nov 14 - 17	MS Add/Drop Session B Courses
Nov 14 - 18	Winter Quarter Registration
<b>Nov 24 - 25</b>	<b>Thanksgiving - College / MC Closed</b>
Dec 10 - 14	Certified Nutrition Specialist Exam (MSCN)
Dec 12 - 16	ND Final Exams
Dec 16	ND End of Fall Quarter
Dec 18	MS Q7 End of Fall Quarter
Dec 19	Graduation Ceremony
Dec 19 - 30	ND Clinic Rotations (Break Weeks 1 & 2)
Dec 19 - 30	ND Student Recess - Didactic Only
Dec 21	ND Final Grades Due
<b>Dec 23 - 26</b>	<b>Holiday - College / MC Closed</b>
Dec 25	MS End of Fall Quarter
Dec 26 - 30	MS Student Recess
Dec 28	MS Final Grades Due
Dec 30 - Jan 2	<b>New Year's - College / MC Closed</b>

### Winter Quarter

January 3 - March 26, 2023

Jan 3	Winter Classes Begin
Jan 3 - 6	MS Session A Add/Drop Courses
Jan 3 - 13	ND / MS Session C Add/Drop Didactic Courses
Jan 6	Last day to pay tuition & fees
<b>Jan 16</b>	<b>Martin Luther King - College / MC Closed</b>
Feb 7	NPLEX Basic Science Exam (ND - Q8)
Feb 8 - 10	NPLEX Clinical Science Exam (ND)
Feb 12	MS Mid Quarter - End of Session A
Feb 13 - 16	MS Session B Add/Drop Courses
Feb 13 - 17	Spring Quarter Registration
Feb 20	MS Spring Orientation Opens
Mar 13 - 17	ND Final Exams (except Q8)
Mar 17	ND End of Winter Quarter (except Q8)
Mar 20 - 31	ND Clinic Rotations (Break Weeks 1 & 2)
Mar 20 - 31	ND Student Recess - Didactic (except Q8)
Mar 21 - 25	ND Quarter 8 - Final Exams
Mar 22	ND Final Grades Due (except Q8)
Mar 24	ND Q8 End of Winter Quarter
Mar 25	ND White Coat Ceremony
Mar 26	MS End of Winter Quarter
Mar 27 - 31	MS / ND Q8 - Student Recess
Mar 29	MS / ND Q8 - Final Grades Due

\*all dates subject to change\*

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### Spring Quarter

April 3 - June 25, 2023

Feb 6	Spring Online Orientation Opens (all programs)
Mar 27 - 31	ND LIVE New Student Orientation (NSO)
Apr 3	Spring Classes Begin
Apr 3 - 6	MS Add/Drop Session A Courses
Apr 3 - 14	ND / MS Session C Add/Drop Didactic Courses
Apr 7	Last day to pay tuition & fees
May 14	MS Mid Quarter - End of Session A
May 15 - 18	MS Add/Drop Session B Courses
May 15 - 19	Summer Quarter Registration
<b>May 29</b>	<b>Memorial Day - College / MC Closed</b>
Jun 10 - 14	Certified Nutrition Specialist Exam (MSCN)
Jun 12 - 16	ND Final Exams
Jun 16	ND End of Spring Quarter
Jun 17	Graduation Ceremony
Jun 18	MS Q7 End of Spring Quarter
<b>Jun 19</b>	<b>Juneteenth - College / MC Closed</b>
Jun 20 - 30	ND Clinic Rotations (Break Weeks 1 & 2)
Jun 20 - 30	ND Student Recess - Didactic Only
Jun 21	ND Final Grades Due
Jun 25	MS End of Spring Quarter
Jun 26 - 30	MS Student Recess
Jun 28	MS Final Grades Due

### Summer Quarter

July 3 - September 24, 2023

Jul 3	Summer Classes Begin
Jul 3 - 7	MS Add/Drop Courses (See Catalog)
Jul 3 - 14	ND Add/Drop Didactic Courses (See Catalog)
<b>Jul 4</b>	<b>Independence Day - College / MC Closed</b>
Jul 7	Last day to pay tuition & fees
Aug 1	NPLEX Basic Science Exam (ND - Q8)
Aug 2 - 4	NPLEX Clinical Science Exam (ND)
Aug 13	MS Mid Quarter (end of Week 6)
Aug 14 - 18	Fall Quarter Registration
Aug 21	MS Fall Orientation Opens
<b>Sep 4</b>	<b>Labor Day - College / MC Closed</b>
Sep 11 - 15	ND Final Exams (except Q8)
Sep 15	ND End of Summer Quarter (except Q8)
Sep 18 - 22	ND Quarter 8 - Final Exams
Sep 18 - 29	ND Clinic Rotations (Break Weeks 1 & 2)
Sep 18 - 29	ND Student Recess - Didactic (except Q8)
Sep 20	ND Final Grades Due (except Q8)
Sep 22	ND Q8 - End of Summer Quarter
Sep 23	ND White Coat Ceremony
Sep 24	MS End of Summer Quarter
Sep 25 - 29	MS / ND Q8 - Student Recess
Sep 27	MS / ND Q8 - Final Grades Due

### Fall Quarter 2023-24

Aug 7	Fall Online Orientation Opens (all programs)
Sep 25 - 29	ND LIVE New Student Orientation (NSO)
Oct 2	Fall 2023 Classes Begin

# Admissions Policies

## Admissions Policies

### Applicant Selection

Sonoran University of Health Sciences selects candidates for admission who exhibit the necessary motivation, intelligence, perseverance, and character essential for becoming a healthcare professional. Applicants are considered on the basis of academic performance, occupational history, professional potential, maturity, concern for others, and emotional maturity. Prospective students who wish to enter the degree program in the 2022 - 2023 academic year must meet and adhere to all institutional admission policies and requirements as well as any admission policies and requirements for their prescribed program of study. (See Admission Requirements for prescribed program of study.)

### Application for Admission

Please contact the Admissions Office for assistance or more information at (480) 858-9100 or visit our website at [www.Sonoran.edu](http://www.Sonoran.edu)

Please see admission requirements under the respective prescribed program of study for application links and requirements.

### Deadline for Application

Sonoran University accepts applications on a rolling basis until all spaces are filled. Application deadlines are listed below. Candidates are encouraged to apply on or before the early decision date.

#### College of Naturopathic Medicine

##### Spring Start (mid-April)

- Early Decision – August 1 of prior year
- Priority Deadline – December 1 of prior year

##### Fall Start (early October)

- Early Decision – November 1 of prior year
- Priority Deadline – March 1 of same year

#### College of Nutrition

##### Spring Start (early April)

- Application Deadline – March 10, 2023
- Admission Deadline – March 17, 2023
- Deposit Deadline – March 24, 2022

##### Fall Start (early October)

- Application Deadline – September 8, 2023
- Admission Deadline – September 15, 2023
- Deposit Deadline – September 22, 2023

### Documents Submitted for Admission

Transcripts and documents from other institutions are the property of Sonoran University and, as such, are ultimately under the control of Sonoran University's Registrar's Office. Under the Family Educational Rights and Privacy Act (FERPA), a Sonoran University student has the right to view the documents in their file; the University is not required to provide (or allow the making of) copies of these documents. Transcripts submitted for admission or credit transfer become the property of Sonoran University and cannot be copied by or returned to the student or forwarded to other institutions. Sonoran University reserves the right to contact references to verify letters or other documents submitted during any part of the admission and background check process.

### Applicants/Students with Disabilities

Sonoran University welcomes applications from students of all backgrounds and does not discriminate on the basis of race, ethnicity, gender, social-economic background, religion, sexual orientation, gender expression or identity, age, disability, veteran status, nationality, thinking styles, or life experiences. Sonoran University is committed to complying with all applicable provisions, including amendments to, the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973.

It is Sonoran University's policy not to discriminate against any qualified student or applicant with regard to any terms or conditions because of such individual's disability or perceived disability, so long as the student can perform the essential functions of the program. Consistent with this policy, the University will provide reasonable accommodations to a qualified individual with a disability, as defined by the ADA, who has made Sonoran University aware of their disability, provided that such accommodation does not constitute an undue hardship to Sonoran University.

Persons with disabilities who possess the required abilities and meet all academic qualifications for admission are encouraged to apply for admission. Applicants to the Doctor of Naturopathic Medicine program must also meet the technical standards. (See Doctor of Naturopathic Medicine Technical Standards for details.) Admitted students with disabilities who believe they need accommodations to perform the essential functions of being a student must contact the Sonoran University Accessibility Office at [adaoffice@Sonoran.edu](mailto:adaoffice@Sonoran.edu) to make appropriate arrangements prior to beginning their program. Admitted students may initiate application for accommodations with the Accessibility Office, housed within the Dean of Students' Office, by submitting the Accessibility Intake form and required medical documentation.



# Admissions Policies

If a student, after following Sonoran University procedures, believes the university is not fulfilling its responsibilities under the ADA or other acts, they may contact the Dean of Students for further advice and assistance. If the matter remains unresolved, the student may file a complaint with the Vice President of Student Affairs (compliance officer for the ADA and Rehabilitation Act).

## Admissions Decision

It is the responsibility of the Admissions Committee to select applicants who are best qualified to complete the required training and most likely to succeed in the program for which the candidate has applied. Applicants are selected for admission to Sonoran University programs based not only on their scholastic achievements and ability, but also on their experience and their intellectual, physical, and emotional capabilities to meet the requirements of the program curriculum and have a successful career. The Committee recognizes that academic competency is essential for success in graduate and medical school. Intellectual curiosity and undergraduate grades help to demonstrate academic competency. The Committee exercises its judgment on behalf of Sonoran University. The Committee considers academic ability as well as character, extracurricular achievement, commitment to service, and overall suitability for the profession based on information in the student's application, letters of recommendation, and, for the ND program, personal interviews. An interview may be required for MS candidates at the discretion of the Committee.

The Admissions Committee makes the final decision regarding an applicant's admission. The decision may be one of the following:

- Admitted – all admission requirements are met
- Admitted with provisions – must meet admission requirements prior to matriculation
- Application pooled – admission decision pending review of additional information
- Admission denied – applicants who are denied may reapply after one (1) year

The Admissions Department will notify the applicant of their admission decision in writing. Applicants may also log into the Sonoran University Admissions Portal to view their application status and decision. Admitted students must remit a non-refundable deposit and signed Enrollment Agreement by the date stipulated in their Offer of Admission letter to hold a place in the class. The deposit is credited toward the first quarter's tuition.

All application files are the property of Sonoran University and cannot be returned. Sonoran University reserves the right to admit or reject applicants, at its sole discretion, at any point during the admission process. Sonoran University does not discuss Committee decisions regarding an applicant's file. The decisions of the Admissions Committee are final and are not subject to appeal.

## Admission Before Receipt of Final Transcript

Students enrolled in other colleges/universities are considered for admission on the basis of meeting all admission requirements prior to matriculating, except for a final transcript. This final official transcript must be sent to the Admissions Office upon completion of coursework in progress. Only under these conditions will the student be allowed to register for and attend courses for their first quarter. Official documentation of completion of prerequisites must be received by the first day of registration for the second quarter, or the student may not be permitted to register (see the prescribed program of study for requirements). In the event that the applicant does not qualify, the College reserves the right to cancel admission and registration and administratively withdraw the student.

## Deferral of Admission

Applicants who have been offered either full or provisional admission may apply for a deferral of their entrance up to one (1) term, applicants with extreme circumstances may defer up to two (2) terms. Applications for deferrals are accepted on a space-available basis. An application for deferral will not be processed until the admission deposit is received. Students deferring admission must do so by the end of the first week of class in the quarter for which they were admitted. Students applying for a deferral of admission must meet any and all new admission requirements for the new entrance year and term.

Applicants who need additional time beyond two quarters must reapply with a full application and all application fees. A student who desires a deferral must complete the Deferral Application through the Sonoran University Admissions portal. A non-refundable Deferral Application Fee is required to transfer a deposit to a new entering class.

## Reapplication Process

Applicants who have submitted an application for admission to Sonoran University and do not complete the process may reactivate their application for up to one year after the initial application. The applicant must submit the requirements

# Admissions Policies

outlined below directly to Sonoran University. Applicants who were denied admission to Sonoran University may reapply after one (1) year and must submit a new application (see Admission Requirements for prescribed program of study). Below are the requirements for the reapplication process:

1. Application submitted through the Sonoran University Admissions portal.
2. Non-refundable application fee.
3. Updated curriculum vitae/resume.
4. Official transcripts for any post-secondary coursework completed since original application.
5. In-person interview required for ND candidates (qualified applicants selected for interview will be contacted by the Admissions Office). An interview may be required for MS candidates at the discretion of the Admissions Committee.
6. Any additional admission requirements for prescribed program of study.

## International Applicants

Sonoran University welcomes applications from international candidates. Transcripts from international institutions must be translated and evaluated by a professional transcript evaluation service who is a member of either the National Council on the Evaluation of Foreign Education Credentials (NACES) or the Association of International Credential Evaluators (AICE). Fees for this service are the responsibility of the applicant. The applicant must request a course-by-course and degree evaluation. Before the applicant's evaluation can begin, the transcript evaluation service must mail the official report and transcripts utilized directly to the Sonoran University Admissions Office. Additional coursework materials, such as catalogs, course descriptions, and syllabi, if requested, must be translated into English by a professional service. International applicants for the Doctor of Naturopathic Medicine program may substitute additional CLEP examinations for prerequisite requirements.

## Transfer Applicants

Applicants who wish to transfer from another accredited (or candidate) equivalent-level degree program must meet all program admission requirements, including payment of fees. Transfer applicants are required to submit a completed Verification of Student Conduct form signed by the Dean of Students or the Registrar of the previously attended institution verifying that the student was in good citizenship standing and not subject to any disciplinary actions. ND transfer applicants, as part of their application, must submit a letter of recommendation from the Academic Dean of the school or program from which the applicant is

transferring indicating the student is leaving in good academic standing. Transfer applicants studying in the U.S. on a visa must work with the institution they are transferring from to transfer their student visa to Sonoran University.

## Transfer Credit Policy

Students entering Sonoran University who have completed coursework or have graduated from an accredited professional school or graduate-level program may apply for transfer credit evaluation. The awarding of transfer credit(s) is determined on an individual basis depending on academic standing, the type of program, degree, depth of course content, and courses completed. Coursework completed more than seven (7) years prior to matriculation at Sonoran University requires the applicant to pass a competency examination with appropriate fees. The Registrar's Office, in conjunction with Sonoran University faculty, the respective program dean, and the Vice President of Academic Affairs, makes determinations of acceptable transfer credits. Transfer credit will not be considered after matriculation and is not subject to appeal. Transfer credits are counted toward the total hours required for graduation but are not counted toward the GPA. Transfer students are required to fulfill the same number of credits required in their program of study as outlined in the catalog.

Transfer status does not imply or guarantee that a student will graduate in less time than the student's prescribed program of study. Transfer students must complete their program in the time determined during the transfer evaluation and in accordance with the number of credits transferred (see Satisfactory Academic Progress for prescribed program of study).

## Eligible Coursework

Only graduate-level coursework completed prior to matriculation at Sonoran University will be eligible for transfer credit, except for approved coursework taken while dual-enrolled at Phoenix Institute of Herbal Medicine and Acupuncture (PIHMA) or the Mel and Enid Zuckerman College of Public Health (MEZCOPH) at the University of Arizona (see Program Partnerships).

## Transferring Credit to the ND program

Only courses completed with a C or better will be considered for transfer credit. Clinical training credit cannot be transferred or earned through the completion of a competency exam, with the exception of 12 or less credits completed at another accredited naturopathic institution and less than five years' lapse in their completion.

## Transferring Credit to MS programs

Transfer credit limits are set in adherence with standards set by Accreditation Council of Nutrition Professional

# Admissions Policies

Education (ACNPE). Only courses completed with a B or better will be considered for transfer credit. No more than 25% of total MS program credits may be transfer credits. For students concurrently enrolled in the MS and ND courses, no more than 12 transfer credits will be accepted for the MS program.

## Transfer Credit Request

Transfer credit is determined during the admissions process. Admitted students seeking transfer credit must complete the Transfer Credit Evaluation Acknowledgement form and pay the non-refundable Transfer Evaluation Fee a minimum of ten weeks prior to matriculation. The Transfer Credit Evaluation Acknowledgement form is sent to all admitted students upon admission to their program. All admission and transfer fees can be paid directly on the Sonoran University Admissions portal. The fee and the transfer credit evaluation results are valid for one academic year. Admitted students must request and submit transcripts from all prior institutions, including military training transcripts for veterans, traditional college coursework, and vocational training.

# Financial Policies

## Tuition and Fees

The following tuition and fees apply to the 2022-2023 academic year. Sonoran University of Health Sciences reserves the right to change tuition and fees at any time. A new tuition and fees schedule will be published when there are changes. Fees specific to the Naturopathic Doctor (ND) program and Master of Science (MS) programs are indicated next to the fee.

## Application & Enrollment Fees

### *(Non-refundable)*

Admission Deposit*	\$300
Deferral (ND)	\$100
Deferral (MS)	\$100
New Student Application (ND)	\$115
New Student Application (MS)	\$50
Non-degree Application (ND)	\$65
Reapplication (ND)	\$115
Reapplication (MS)	\$50
Transfer Evaluation	\$300

### *Tuition (Per Credit)*

ND	\$380
MSCN	\$669
MSNBL	\$1253

## Non-course-specific Fees *(Non-refundable)*

Sonoran University students may choose to participate in activities that result in other fees and charges.

Graduation Audit Fee	\$250
Audit (per course)	\$150
Clinical Drop/Add (ND)	\$50
Competency Assessment (per exam)	\$150
Credit Card Processing	3.0%I
Diploma Replacement	\$50
I-Print** Single B/W (ND)	\$0.08
I-Print** Duplex B/W (ND)	\$0.14
Late Clinical Paperwork (ND)	\$50
Late Registration	\$100
Returned Check	\$45
Special Examination (per exam)	\$150
Student ID Card	\$25
Transcript Fee (via <a href="#">Parchment</a> )	\$12

\* Credited towards tuition

\*\* ND students receive a \$25 printing credit/quarter; additional credit can be purchased through the Business Office.

## Quarterly Fees

Equipment (ND)	\$30
NMSA Dues (ND)	\$15
NPLEX Review (ND)	\$15
Student Government	\$20
Fee for additional program enrollment	\$5
Technology (ND)	\$60
Technology (MS)	\$250

## ND Course-specific Fees

ANAT 5014/5024/5034 Lab	\$25
BOTM 6020 Lab	\$60
CLPR 5030 Practice Exam	\$60
CLPR Lab	\$40
CLTR 4304 Clinical Entry Exam	\$100
CLTR 4508 A, 1 <sup>st</sup> Attempt	\$525
CLTR 4508 B, Part 1: 1 - 2 Sections	\$145
CLTR 4508 B, Part 1: 3+ Sections	\$275
CLTR 4508 B, Part 2	\$275
CLTR 4508 C, Part 1: 1 – 2 Sections	\$145
CLTR 4508 C, Part 1: 3+ Sections	\$275
CLTR 4508 C, Part 2	\$275
ERMD 8014	\$185
GYNE 7020 Lab	\$50
HMEO 6010	\$25
HMEO 7020	\$25
HMEO 7030	\$25
HMEO 7040	\$25
MICR 5026 Lab	\$25
MSRG 7010/8020 Lab	\$22
NUTR 6930	\$250
PHMD 6981 (Selective)	\$33
PSYC 6970 (Selective)	\$20

## MS Course-specific Fees

MSCN – NUTC 5420 Certificate	\$250
MSNBL– NUTB 53306 Certificate	\$100

## Library Fines

Lost or Damaged Processing Fee (plus cost of item)	\$5.00
Overdue Items (per item each day)	\$0.50
Reserve (2- hour check-out) (per item each hour late)	\$1.00



## Student Material and Equipment Purchases

### *(Non-refundable)*

In addition to the tuition and fees, students are required to purchase books, materials, supplies, and equipment to supplement their course instruction and clinical training.

For the ND program Sonoran University contracts with medical equipment manufacturer Welch Allyn and Littman to provide high-quality medical equipment and with Turning Technologies to provide hand-held and/or digital student response equipment at negotiated prices. Participation in Sonoran University's equipment purchase is mandatory and is automatically charged to all ND students in their first term in attendance at Sonoran University.

Audience Response Subscription (ND)	\$30
Medical Equipment (ND)	\$820

Depending on the program of study, students should allow on average a textbook, materials, and supplies cost of approximately \$500 - \$1,000 per quarter.

## Ancillary Program Expenses

There are additional expenses related to programs that include but are not limited to, the fees paid for certifications, vaccinations, certification and licensing exams, clinical requirements, certifications, and licensure applications, etc. In accordance with attendance requirements at ND extended sites and field observation rotations, ND students will obtain a fingerprint clearance card in CLPR 5010. This card is good for six (6) years as outlined by the Arizona Department of Public Safety.

Ancillary program expenses are paid directly to outside agencies and organizations. Certifications are administered by third-party organizations. Should students opt to pursue certification, all application and examination fees associated with these certifications are paid directly to the outside agencies and organizations. For a more detailed list of specific ND program expenses, please visit MySonoran—Programs – Doctor of Naturopathic Medicine – Clinical Resources – Clinical Information page.

## Financial Policies

### Tuition and Fee Payment

All tuition and fees listed are in United States currency. Tuition and fees are due in full every quarter by the end of the add/drop period for each program. Students who have not paid their tuition and fees in full by each quarter's tuition payment deadline will have a hold on their account. Depending on the amount of time lapsed, students may be permitted to re-register for courses/clerkships after payment of tuition and fees are received in full. Late registration and clinical add/drop fees may apply (see Add/Drop Policy for applicable dates and Tuition and Fees). Throughout a term, students may incur additional fees and fines for which payment is due upon notification of the debt. The Sonoran University Business Office will place a hold on student accounts until debts are paid in full. Further:

- Any debt or returned check may revoke a student's current enrollment.
- Permission to register for subsequent terms will be held until all student debt is paid in full for previous terms.
- Course credit will not be given until all student debt is paid in full.
- Transcripts or diplomas will not be released until all student debt is paid in full.

### Payment Options

Student payments must be in U.S. currency in the form of a credit card (fees apply), personal check, money order, or bank check. Students who prepay tuition and fee charges are not eligible for reimbursement through federal student aid. Small-dollar charges under \$100 may be paid with cash in the business office.

### Financial Aid

Students in eligible programs seeking federal funding for their educational needs will receive assistance through the Financial Aid Office.

The Federal William D. Ford Direct Unsubsidized Loans are available to students who qualify and are not need based per federal regulations. The student is responsible for the interest that accrues on an unsubsidized loan. Students have the option of paying the interest while in school or adding the interest to the principal balance at the time of repayment.

# Financial Policies

## Program Limits

### Doctor of Naturopathic Medicine Students

- The maximum amount a student may borrow in Direct Unsubsidized Loans is \$40,500 per nine-month academic year.
- The aggregate limit for Direct Unsubsidized loans is \$224,000.

### Masters Students

- The maximum amount a student may borrow in Direct Unsubsidized Loans is \$20,500 per nine-month academic year.
- The aggregate limit for Direct Unsubsidized loans is \$138,500.

### Private Loans

Private student loans are available to those who qualify and are credit based. There are no fixed annual or aggregate loan limits for private student loans. However, private loans may not exceed the cost of attendance for a nine-month academic period (see Financial Policies).

## Financial Aid Recipients

In accordance with the U.S. Department of Education (ED) 34 CFR 668.164 (c), federal student aid shall be posted to student accounts for allowable tuition and fee charges prior to crediting student accounts for other costs such as living expenses. Further, student verification of attendance in classes or clerkships must be documented prior to financial aid disbursement. Once student aid is applied to student accounts and attendance verification is received, the net difference between aid and tuition and fee charges results in an amount due to student or an amount due from student. Amounts due to students are provided in the form of a paper check or directly deposited in student bank accounts. Amounts due from students are due and payable according to the payment guidelines (see Payment Options).

### Foreign Financial Aid or Third-Party Payer Recipients

Proof of official promissory note and/or offer letter from a third-party payer must be delivered to the Sonoran University Business Office prior to the first day of a term in order to avoid being dropped from all registered courses and clerkships and having to re-register for courses.

## General Eligibility Requirements

All students seeking financial aid must meet general eligibility requirements regarding citizenship, financial need, and satisfactory academic progress. Students who are currently in default and have not made satisfactory loan repayments or owe a refund on a Title IV program do NOT qualify for any form of federal aid.

### Financial Aid Policy for Repeat Coursework

- Federal regulations (Title IV) limit the number of times a student may repeat a course and receive federal financial aid for that course. The Financial Aid Office does not determine if a student may repeat a course, only if the student is eligible for federal financial aid for the repeated course(es). Repeat coursework can also have consequences on a student's Satisfactory Academic Progress (SAP) calculation.
- Federal regulations prohibit students from using Title IV funds to cover a course for more than two attempts after a failure of a course.
- A student may receive federal financial aid when repeating a course that was previously failed.
- Once a student has completed any course twice and earned a passing grade, they are **no longer eligible** to receive federal financial aid for that course.

### Loss of Eligibility Due to a Drug Conviction

A student who is convicted of a state or federal offense involving the possession or sale of an illegal drug that occurred while enrolled in school and receiving Title IV aid is not eligible for Title IV funds (see Sonoran University's Drug and Alcohol Abuse Policy in the Sonoran University Student Handbook).

A borrower's eligibility is based on the student's self-certification on the Free Application for Federal Student Aid (FAFSA). Convictions that are reversed, set aside, or removed from the student's record or a determination arising from a juvenile court proceeding do not affect eligibility and do not need to be reported by the student.

A student convicted of a drug-related offense while enrolled in school and receiving Title IV aid loses Title IV eligibility as follows:

1. For the possession of illegal drugs:
  - First offense: one year from the date of conviction
  - Second offense: two years from the date of the second conviction
  - Third offense: indefinite period
2. For the sale of illegal drugs:
  - First offense: two years from the date of conviction
  - Second offense: indefinite period

A school must provide a student who loses Title IV eligibility due to a drug-related conviction with a timely, separate, clear, and conspicuous written notice. The notice must advise the student of their loss of Title IV eligibility and the ways in which the student may regain that eligibility.

## Regaining Eligibility after a Drug Conviction

Students denied eligibility for an indefinite period can regain eligibility after completing any of the following three options:

1. Successfully completing a rehabilitation program (as described below, which includes passing two unannounced drug tests from such a program);
2. Having the conviction reversed, set aside, or removed from the student's record so that fewer than two convictions for sale or three convictions for possession remain on the record; or
3. Successfully completing two unannounced drug tests which are part of a rehab program (the student does not need to complete the rest of the program)

A drug rehabilitation program is considered approved for these purposes if it includes at least two unannounced drug tests and meets one of the following requirements:

- The program received or is qualified to receive funds directly or indirectly under a federal, state, or local government program.
- The program is administered or recognized by a federal, state, or local government agency or court.
- The program received or is qualified to receive payment directly or indirectly from a federally or state licensed insurance company.
- The program is administered or recognized by a federally- or state-licensed hospital, health clinic, or medical doctor.

When a student regains eligibility during the award year, Sonoran University may award campus-based aid for the current payment period (quarter) and Direct Loans for the period of enrollment (academic year).

Federal Student Aid Handbook. (2021-2022). School-Determined Requirements. Ch. 1, Vol. 1, pp. 33-35. Retrieved from:

<https://fsapartners.ed.gov/sites/default/files/2021-04/2122FSAHbkVol1Master.pdf>

## Financial Aid Procedure

Students in eligible programs interested in obtaining financial aid must complete the Free Application for Federal Student Aid (FAFSA), the Direct Master Promissory Note (MPN), and Federal Stafford Entrance Counseling Exam. Approximately two to three weeks after submission of the FAFSA, the results of the compilation of information, including the estimated family contribution, is sent to the student and Sonoran University. Once the student's file is reviewed for eligibility, federal funding is determined. The student will receive an offer letter reflecting the cost of attendance based on the student's credit hour load reflected in their final registration and the type of aid offered based on the student's eligibility.

## Federal Work Study

Federal Work Study (FWS) awards are need-based. Campus-based students in eligible programs are required to indicate their desire to participate in the FWS program when completing their FAFSA or communicate their desire to the Sonoran University Financial Aid Office to ensure FWS awarding is an option. Available positions are advertised each quarter. Please contact the Financial Aid Office for additional information at [finaid@Sonoran.edu](mailto:finaid@Sonoran.edu).

## International Students

Although international students do not qualify for U.S. federal financial aid, there are other options to help fund their Sonoran University education. Private student loans are available to foreign students; however, they must have a U.S. citizen or permanent resident as a co-signer.

## Canadian Citizens

Canadian students may be eligible to apply for Canadian student loans through their respective provincial governments. Canadian students receiving financial aid from their provincial governments will be held to the same payment deadlines for tuition. Tuition must be paid in full by the end of add/drop period. If provincial financial aid is received by Sonoran University after the student has paid, a refund of excess tuition will be issued to the student within ten business days. Canadian students are responsible for initiating the process of financial assistance from their province. Documentation should be sent to the Financial Aid Office at Sonoran University for completion and returned to the appropriate provincial government.

## Veterans Benefits

### Applying for VA Benefits

Sonoran University's ND and MSCN programs are approved programs of study by the Arizona State Approving Agency (ASAA) for eligible students. Eligibility for VA benefits is determined by the appropriate VA Benefits Office. Students must contact the VA Office and complete the required approval forms to determine eligibility. After the student has completed the process, the student must submit their notice of eligibility and status of benefits to the Registrar's Office.

### Yellow Ribbon Program

Sonoran University is an approved participant in the U.S. Department of Veterans Affairs' Yellow Ribbon program. Individuals who qualify for the Post-9/11 GI Bill® at the 100% rate may be eligible for this additional funding to help them achieve their educational goals.

The Yellow Ribbon GI Education Enhancement Program (Yellow Ribbon Program) is a provision of the Post-9/11 GI Bill® that allows veterans to attend private schools and graduate programs costing more than the annual state tuition cap. Under the program, Sonoran University offers a veterans-only scholarship which the VA will then match. This benefit is offered to a limited number of students on a first-come, first-served basis. Veterans should contact the Registrar's Office for further information on the benefits and submission of the Yellow Ribbon Program application.

### VA Eligibility

VA Benefits are not considered Estimated Financial Assistance when determining eligibility for Direct Loans. Veterans must continue to achieve Satisfactory Academic Progress (SAP) toward their educational program(s) each term in order to remain eligible for benefits. Sonoran University must report to the VA Office if a student is not making SAP or if there is any change in enrollment status. (See Satisfactory Academic Progress for prescribed program of study.)

Students who served on Active Duty may be eligible for education benefits offered by the Department of Veteran Affairs. Students should check eligibility status and the amount for which they qualify prior to enrolling. For additional information, refer to the financial aid web page on the Sonoran University website.

### VA Principles of Excellence

Sonoran University has agreed to comply with the Principles of Excellence as issued in Executive Order 13607 and signed on April 27, 2012.

Any individual covered by VA benefits is eligible to attend or participate in courses during the period beginning on the date on which the individual provides Sonoran University a certificate of eligibility for entitlement to educational assistance under Chapter 31 or 33 (a "certificate of eligibility" can also include a "Statement of Benefits" obtained from the Department of Veterans Affairs' (VA) website – eBenefits, or a VAF 28-1905 form for chapter 31 authorization purposes) and ending on the earlier of the following dates: (1) the date on which payment from the VA is made to Sonoran University, or (2) 90 days after the date Sonoran University certified tuition and fees following the receipt of the certificate of eligibility.

Sonoran University will not impose any penalty, including assessment of late fees; the denial of access to classes, libraries, or other institutional facilities; or the requirement that a covered individual borrow additional funds on any covered individual because of the individual's inability to meet their financial obligations to the institution due to the delayed disbursement funding from VA under Chapter 31 or 33 (refer to Military Leave of Absence and to the Withdrawal Refund Policy).



# Distance Learning

## Distance Learning

In addition to traditional campus-based courses, Sonoran University offers courses via online learning and *distance education*. Online learning can occur in different forms, from 100% online (online) to partially online (hybrid or blended) courses. *Distance education* refers to a degree or a course that “deliver(s) instruction to students who are separated from the instructor or instructors” ([The Higher Learning Commission Glossary](#)) with at least 75% of interaction and instructions in a distance education course occurring online with faculty and students physically separated from one another. Sonoran University adheres to best practices in online program and course design, delivery, and assessment and ensures that program and course quality and educational standards are consistent regardless of the mode of course delivery.

Within an online or partially online course, course content may be engaged by students through synchronous (e.g., attending live virtual class session) and/or asynchronous (e.g., viewing a pre-recorded video lecture) learning opportunities.

## Online Courses

Online learning consists of all e-learning (web-based) instruction and activities. In 100% online courses; there are no in-person requirements within the course. All communication and coursework are completed through the learning management system with synchronous and/or asynchronous learning opportunities included.

## Hybrid Courses

Blended (hybrid) learning consists of traditional in-person classroom instruction mixed with e-learning (web-based) instruction and/or activities. In-person, classroom-based learning time is scheduled along with web-based or out-of-class work; typically, in-person class time is replaced with web-based or out-of-class work. Communications and coursework are enhanced by making use of Canvas, MySonoran, and other online education tools. Technology Requirements

Students enrolled in Sonoran University courses must have access to hardware, software, and internet bandwidth that meets the minimum technology and computer requirements that will allow them to successfully navigate Sonoran University’s technology systems. To view recommended minimum requirements and evaluate their device(s), students should visit the Technology Check website at [techcheck.sonoran.edu](http://techcheck.sonoran.edu).

## Course Access

Students will have access to online courses upon registration; however, course content may not be available prior to the start of the quarter.

## Student Authentication

The United States Federal Higher Education Opportunity Act (HEOA) of 2008, Public Law 110-315, mandates that institutions validate that the person enrolled in and receiving credit for the online course is the same person participating in and completing the online course. To authenticate student identity in online courses, Sonoran University uses a secure login with username and password to authenticate student identity. In accordance with Family Educational Rights and Privacy Act (FERPA), methods used to authenticate student identity in online and distance learning courses will protect the privacy of student information.

## Privacy

Students should be aware that information posted using course tools in courses with online components, including discussion forums, blogs, or videos, are available to the instructor and fellow students. Students should refrain from posting personal or confidential information to safeguard their privacy.

# Institutional Policies

## Institutional Policies

### Enrollment Policy

Once matriculated, a student must be continuously enrolled unless the student is taking an approved leave of absence. Students who fail a course may not be eligible to progress in their prescribed program of study until the failed course has been successfully completed. Students may not take courses in advance of their program as outlined in the program of study without the approval of the Academic Policy and Progress Committee (APPC). Students are not allowed to attend, nor will credit be awarded for, courses for which they are not registered. Students will not be allowed register for courses that have overlapping schedules or for which they do not have prerequisites or corequisites without prior approval from the APPC.

### International Students

International students attending Sonoran University on an I-20 must maintain full-time enrollment at all times unless otherwise following the articulated program of study. All exceptions require approval from the Dean of Students. Please direct any questions regarding international student status to the Vice President of Student Affairs office.

### Degree Conferral

Sonoran University confers degrees only following the end of each academic term. Sonoran University does not guarantee the award of the degree to students enrolled in a program. The award of degrees is contingent upon satisfaction of all current degree and instructional requirements at the time of such award, compliance with Sonoran University regulations, as well as performance and conduct meeting bona fide expectations of faculty. No member of the faculty is obliged to provide students or graduates with an evaluation or letter of recommendation that does not accurately reflect the faculty member's true opinion and evaluation of the student's academic performance and conduct.

### Concurrent Degree Enrollment

Students have the opportunity to be concurrently enrolled in two Sonoran University degree programs, provided all admission, pre-matriculation, and eligibility requirements are met for each degree program. Concurrent enrollment recognizes the student's first-degree program enrollment as their primary degree and the subsequent degree enrollment as their secondary degree. Students interested in pursuing concurrent enrollment must meet all admission requirements for the secondary degree as well as concurrent enrollment pre-matriculation requirements

outlined by their primary degree program. For specific concurrent enrollment pre-matriculation requirements, please see concurrent enrollment section within the respective primary degree program. The student is urged to seek academic advising before concurrent enrollment to assure orderly progress toward their primary degree.

Upon admission to the secondary degree program and prior to concurrent enrollment, students are required to sign a Concurrent Enrollment Eligibility Acknowledgement (CEEA) form. The CEEA outlines the Sonoran University eligibility requirements students must maintain in order to continue to be concurrently enrolled. Failure to meet any of the below requirements for concurrent enrollment may result in a student being placed on a leave of absence or withdrawn from the secondary degree program:

- Failure to meet satisfactory academic progress standards for either primary or secondary program.
- Failure to maintain good citizenship status (Code of Conduct violation)

While a student may be concurrently enrolled in two programs, the student must remain on their prescribed program tracks from their first quarter enrollment. If a student fails to meet any of the CEEA requirements in either program during concurrent enrollment, the student will be required to take a leave of absence or withdraw from their secondary program until a time where they are once again able to meet concurrent enrollment eligibility requirements, as determined by APPC. However, once a student is again able to meet all concurrent enrollment eligibility requirements, they may be able to resume studies in their secondary program.

Students may not enroll in two degree programs at the same level if one degree is a subset of the other (i.e., all the courses in one degree are included in the other degree.)

### Non-degree Enrollment

A limited number of courses offered through Sonoran University's degree programs may be available to the public as non-degree coursework. Interested individuals must complete an Application for Non-Degree Coursework, available from the Registrar's Office, and pay the appropriate fee for the non-degree course prior to the start of the course (see Tuition and Fees). A minimum of a bachelor's degree or equivalent is required to enroll. An official transcript from an accredited institution reflecting a bachelor's degree must be received directly by Sonoran University. The same add/drop policies apply for non-degree coursework (see Adding and Dropping Courses). Some Sonoran University didactic courses may require prior approval by faculty and/or the program dean. Courses available for non-degree enrollment may not be audited, must be taken for a grade, and require completion of all course requirements. Individuals will be considered for non-

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degree status on a space-available basis. When admitted with a non-degree status, an individual may enroll for a maximum of two courses per quarter. A maximum of 12 credit hours completed in non-degree status may be used for transfer or for fulfilling degree requirements for the Doctor of Naturopathic Medicine program at Sonoran University. A maximum of 4 credit hours completed in non-degree status may be used for transfer or for fulfilling degree requirements for the Master of Science degree program at Sonoran University.

## Family Educational Rights and Privacy Act

This federal law is designed to protect the confidentiality of the student's educational records. The Act affords the student certain rights with respect to their education records. These rights ensure that eligible students have access to their educational records for inspection and review and to request an amendment if the student believes they are inaccurate or in violation of the student's privacy. Further, this law protects the rights of a student to privacy by limiting access by others to education records without express written consent of the student and the right to file a complaint with the U.S. Department of Education concerning alleged failures by Sonoran University to comply with the requirements of FERPA.

Sonoran University may release information from an education record without the consent of the student to:

- Officials of another college or university where the student seeks or intends to enroll, as permitted by FERPA §99.31 (a)(2).
- Another educational institution in which the student is enrolled. For example, Sonoran University may release academic records for a "dual enrollment" without prior written consent (FERPA §99.34 (b)).
- If the information is necessary to protect the health or safety of the student or other individuals (FERPA §99.36). Student records are open to other school officials, including faculty and administration, and local and state education agencies that have been determined to have a legitimate educational interest, including those specified by the Act as amended January 3, 2012.

Students have the right to review and inspect their education records, including their application, except for confidential recommendations. Photo identification must be presented before access to education records will be permitted. An appointment must be made with the Registrar's Office to access an education record.

## Directory Information

Sonoran University may release information that has been defined under the Directory Information Provision of FERPA. Sonoran University defines directory information as name, address, photo/photo-ID, phone number, e-mail address, dates of attendance, the program of study, degree conferral date, enrollment status, grade level, previous educational institutions attended, and degrees/awards earned. Forms are available at the Registrar's Office for a student to request that Sonoran University withhold all directory information.

## Proper Disclosure

Student information of a private, personal, or confidential nature that is provided to Sonoran University faculty and staff will not be disclosed improperly. Faculty are expected to provide accurate evaluations of students. For the purposes of monitoring and recording student progress, evaluations include the strengths and weaknesses of academic, clinical, communication, and professional skills. The evaluations also include observations and opinions regarding academic effort and professional conduct. Although not required, faculty and staff may provide judgments of a student's abilities and character to others in appropriate circumstances in accordance with the Sonoran University policy on student records.

## Change of Name

The name used by a student on all educational records, including their diploma, must be the student's legal name. To change the name reflected on student records, a student must complete the name change form and provide one of the following legal documents to the Registrar's Office:

- A copy of the student's social security card
- A certified copy of a court decree dissolving a marriage/restoring maiden name
- A certified copy of the court order directing a change of name
- A valid motor vehicle driver's license

The student's request is recorded after all materials are submitted.

## Registration

### Pre-registration

All Sonoran University programs are cohort-based; therefore, students are automatically registered for core courses (not electives or selectives), including courses, labs, and clinical clerkships. Students may not deviate from their prescribed program of

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study. Following registration and prior to the start of the term, students enrolled in campus-based courses will have the opportunity to trade course/lab sections or clinical clerkships (see Sonoran University Clinical Handbook) according to published deadlines for their prescribed program of study.

## Registration

New campus-based students are required to upload a copy of a government-issued photo identification (i.e., Driver's license or passport) to the Sonoran University Admissions Portal for registration. Registration for ND selective courses is available to students online 24/7 during the open registration period. Registration dates for each program of study are published in the academic calendar unless posted otherwise. Registration is the responsibility of the student. ND students may not register for courses after the second week of classes; MS students may not register for courses after the fourth day of the course session (see Adding and Dropping Courses). Students who fail any courses may not be eligible to progress in their prescribed program of study, will be dropped from the post-requisite course(s) and must meet with an Academic Advisor to amend their registration. Students must have the required prerequisites or co-requisites to be registered for the next quarter's courses. Students who fail milestone, capstone, or sequence courses are not eligible to progress until the course is repeated with a passing grade.

Students must be final registered for courses in order to attend. To finalize registration each term, ND students must complete the online Registration Term Agreement. MS students will confirm their agreement through correspondence with their Student Success Counselor. As part of fall quarter registration, all students are also required to review and update their personal and emergency contact information. Students enrolled in online distance education programs are required to verify their current address and indicate the state in which they will be taking courses, if different from their address, prior to the start of each quarter. Students who do not complete the agreement (and information update when required) during the designated time period will be charged a Late Registration Fee and may not be registered for the next quarter's courses (see Tuition and Fees).

## Registration Holds

A registration hold may be placed on a student's record to prevent the student from registering for courses in future quarters for financial, administrative, admissions, or academic reasons (including failure to comply with Sonoran University's requirement of Safety and Prevention Courses, current NPLEX policies, or address verification

requirement). Any registration hold must be resolved before a student is registered.

## Attendance

Students are expected to attend all classes, laboratories, and clinical clerkships. It is the faculty member's prerogative to determine individual course attendance requirements. Attendance requirements are stated in the course syllabus. Attendance at laboratories and clinical clerkships is mandatory. Students must notify their faculty and the Dean of Students' Office of a qualified incident utilizing the excused absence form in order to obtain an excused absence for course attendance and test/assignment rescheduling purposes, unless there are extenuating circumstances (see Missed Examinations, Assignments, or Required Attendance).

Attendance for online distance education courses is determined by active participation within the course such as submitting an assignment or exam, attending an online chat, or posting to a discussion forum. Simply logging into the course is not considered participation. Participation will not be counted for assignments submitted prior to the official first day of the quarter. Class participation by the end of the fourth day of the course is required to verify attendance and to release financial aid, if applicable. Students who do not maintain active participation in a distance course, as outlined in the syllabus, are encouraged to withdraw from the course to avoid failure of the course (see Adding and Dropping Courses).

Students receiving Title IV financial assistance, including assistance from the Veterans Administration (VA), are responsible for meeting VA and/or applicable federal aid attendance requirements.

## Academic Policy and Progress Committee

The Academic Policy and Progress Committee (APPC) is comprised of faculty, administration, and staff members. The APPC makes academic decisions regarding students' progress throughout their program. The decisions of the APPC are final with the exception of decisions regarding academic dismissal, which may be appealed to the Dean of the College of Naturopathic Medicine or the Dean of the College of Nutrition depending on the student's program of study.

## Adding and Dropping Courses

Sonoran University's programs of study are track programs. Changes to the student's prescribed program of study must receive approval from APPC. Schedule changes requested



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after the start of a quarter are only permitted as detailed below:

- Students who fail to drop any course for which they are registered and fail to attend/participate in that course are subject to failing the course and the academic policies pertaining to failing a course (see Satisfactory Academic Progress for prescribed program of study).
- Students dropping a course after the add/drop period must follow the Course Withdrawal policy and are subject to the Dropped Courses/Refund Policy.
- Withdrawing from courses after the add/drop period may impact their academic performance/academic progress.

See the *ND Program Add/Drop Requirements for additional program requirements*.

## Auditing Courses

Students may audit a course with approval of both the course faculty and the program dean if they have already received credit for the course, met the course prerequisites, and have registered for the course. In cooperation with the program dean, the faculty will determine the degree that a student may participate. A student may not audit a course for which they have not already received credit. Rare exceptions are noted in the course syllabi. A student cannot audit laboratory courses or clinical courses. Non-degree students may not audit courses. When auditing a course, students do not earn a grade, nor do they receive credit. Courses taken as audit will appear as an AU on the student's official transcript, audit and course fees may apply (see Tuition and Fees). Audit students are not eligible to participate in faculty office hours. Audit students will not complete any assignments or take any tests with the exception of exam preparation courses or in the event a unique exception is granted.

## Leave of Absence

A leave of absence (LOA) may be granted by the APPC to any student maintaining satisfactory academic progress for their prescribed program of study and who has met all financial obligations to Sonoran University. All LOAs requests must be submitted to the APPC for review and approval or denial. While on LOA, students are not eligible to attend courses or clinical clerkships, nor receive financial aid. The Financial Aid Office will be notified of the student's intended last date of attendance when students request an LOA.

If students are unable to complete a quarter, tuition and fee refunds will be issued according to the Add/Drop Policy; and final grades will be issued according to the Grading Scale Policy (see Adding and Dropping Courses and Grading Scale Policy).

LOA is a period of non-enrollment where students are not considered to be working toward the completion of their degree. The length of time allowed for LOA varies depending on the type of leave (see Types of Leave of Absence). Students on LOA are not eligible for financial aid and are subject to federal regulations pertaining to current loans. Upon return from LOA, the student must continue to meet technical standards and graduation requirements for their prescribed program of study.

## Requesting a Leave of Absence

1. Students must initiate the LOA process through an Academic Advisor or Dean of Students
2. Requests for LOA will be considered individually by APPC using the following guidelines:
  - a. LOA will only be granted to students demonstrating satisfactory academic progress for their prescribed program of study.
  - b. LOA should be requested prior to the beginning of a term and be approved before the term for which it is requested.
  - c. Sonoran University strives to create an educational environment where students can pursue their academic goals. On rare occasions, a student may experience an unforeseen, uncontrollable, or unavoidable medical, mental health, or personal crisis that is so severe as to incapacitate the student preventing completion of the program. Therefore, currently enrolled students may request a hardship withdrawal from the respective program Dean and Dean of Students.
3. Leave time will be considered a portion of the total time limit for the degree (see Satisfactory Academic Progress for prescribed program of study).
4. Students who do not return to active enrollment at the end of the granted leave are administratively withdrawn from Sonoran University. Students who are absent in excess of one year and wish to re-enter their degree program must go through the admission process for re-entry. Students are responsible for any outstanding tuition, fees, medical center bills, and library fines.

## Types of Leave of Absence

### Administrative Leave of Absence

The Administrative Leave of Absence (ALOA) policy is designed to support students by streamlining the leave of absence process for those students unable to progress in their prescribed program of study due to the failure of a required course. Students will receive an official notification of the ALOA from the Registrar's Office. The general policies for a student on LOA typically apply to a student on ALOA. For complete information on an ALOA, please see



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the Sonoran University Student Handbook. Sonoran University reserves the right to place a student on an ALOA in the event the student is unable to return to courses or has submitted medical documentation indicating they are unable to participate in courses.

## Personal Leave of Absence

Students who are temporarily unable to continue their program of study for personal reasons may request a Personal LOA for a specific period of time not to exceed two consecutive quarters in a 12-month period. Students on a Personal LOA that exceeds two quarters must request an extension from APPC or they may be officially withdrawn.

## Medical Leave of Absence

Students who are temporarily unable to continue their program of study for medical reasons may request a Medical LOA for a specific period of time not to exceed a 12-month period. Students requesting an LOA for medical reasons must provide documentation by a clinician qualified to diagnose in the appropriate area of specialization. Documentation must be based on a current evaluation, provided on letterhead, typed, dated, and have an original signature. The same documentation is required when a student wishes to return from the medical LOA, indicating the student is able to resume their academic program. All documentation must be submitted with the LOA request. For information regarding medical accommodations, please see Accessibility Office pages on MySonoran. A Medical LOA can be requested in conjunction with a Grade of Incomplete request, if occurring during the term and requirements are met.

## Military Leave of Absence

Any student who is a member of the National Guard or other reserve component of the Armed Forces of the United States and is called to active duty will be granted a Military LOA for the period of active duty and one year thereafter. Students will submit the student's notification of duty requirements from the military. Upon return from a Military LOA, the student will be reactivated with the same academic status and without loss of academic credits earned, scholarships or grants awarded, or tuition or other fees paid prior to the commencement of active duty.

## Leave of Absence and Financial Aid

The U.S. Department of Education requires that a student maintain a minimum status of half-time enrollment to receive federal financial aid. Therefore, students who are on ALOA/LOA will be considered withdrawn according to financial aid regulation 34 CFR 668.22 (d). If students are unable to complete a quarter, tuition and fee refunds will be issued according to the Add/Drop Policy for their prescribed program of study; and final grades will be issued according

to the Grading Scale Policy. Leave time will be considered a portion of the total time limit for degree completion. (See Satisfactory Academic Progress for prescribed program of study.)

## Exit Counseling

Students who are enrolled less than half-time, withdraw, or graduate from Sonoran University are required by the U.S. Department of Education to complete the online exit counseling. Exit counseling helps borrowers understand their responsibilities when repaying their federal student loans. Please visit <https://studentaid.gov/> for more information.

## Leave of Absence and Library Resources

Enrolled students at Sonoran University have full borrower privileges and full access to electronic databases. Students approved for an LOA must return all library items and pay any outstanding fines prior to LOA approval. Depending on the type of LOA, students may not have borrower privileges or remote access to electronic databases (see Library Privileges during a Leave of Absence).

## Reactivation of Enrollment after Leave of Absence

Students wishing to be re-activated within a year from the last date of attendance must submit the Reactivation Application form to the Academic Advising office. Academic Advising supports the student with applying for reactivation of enrollment, including assistance on requirements, submission of supporting documents related to the student's LOA (if applicable), and answering any questions the returning student may have. All reactivation requests must be approved by the APPC. The APPC will review the request and determine the student's eligibility to re-enter the program based on resolution of the issue(s) that resulted in the LOA. Upon return from LOA, the student must continue to meet all technical standards and all graduation requirements for their prescribed program of study.

If a student enrolled in the ND program ceases to be enrolled, including LOAs, Arizona ND statutes require that the certificate to engage in clinical training held by that student be automatically canceled. Therefore, ND students returning from an LOA must re-apply for a new clinical training certificate (CTC) prior to their return to Sonoran University as required by the Arizona Naturopathic Physicians Medical Board. A CTC is required to be current, and it is the responsibility of the ND student to ensure that they have a valid CTC during their enrollment. ND students who return from an LOA may be required to attend Clinical Skills Development Sessions (CSDS) and/or Basic Science

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immersion course(s) to ensure they are prepared for re-entry into the program. The time during which the student was on LOA and/or withdrawn will be considered toward the total time limit for degree completion.

## Academic Standing and Withdrawals

Each student's academic standing is finalized at the conclusion of each quarter after a review of the term's final grade submissions. A student who meets the criteria for probation and/or dismissal will be notified at the end of the term (see Satisfactory Academic Progress for prescribed program of study).

### Administrative Withdrawal

Sonoran University is required to verify the enrollment and participation of students who participate in Federal Title IV student aid programs and/or who receive educational benefits through alternate funding sources.

Students may be administratively withdrawn from the college under the following circumstances:

- Failure to meet admission requirements or falsification of information on the Sonoran University application.
- Failure to pay tuition and fees for the prescribed program of study by the published deadline.
- Failure to return to active enrollment at the end of the granted leave.
- Failure to complete Registration Term Agreement, Personal Information Update (when required), and/or necessary authorizations for registration to occur.

### Course Withdrawal

Sonoran University recognizes the complex lives of our adult learners, therefore there are conditions under which a student may withdraw from courses after the drop/add period. Courses dropped *after the add/drop period* may result in a grade of Withdrawal (WD) on the student's official transcript if the withdrawal meets the Final Date of Withdrawal criteria stated in the course syllabus. Students are ineligible for a course withdrawal if they have completed all course requirements. The grade earned at that time will be assigned by faculty as the final grade for the course. There is no refund due to a student who withdraws from courses after the official add/drop period of the prescribed program of study.

Withdrawals are reflected on the student's transcript as credit hours attempted (not credit hours earned), therefore a grade of WD on the student's transcript does not impact the student's GPA. Reenrollment in a previously withdrawn course beyond the add/drop period will be noted as a repeated course on the student's official transcript. If a course syllabus does not specify a Final Date of

Withdrawal, withdrawals will be processed in accordance with the guidelines below.

- Courses with a final exam: deadline to drop the course is prior to date/time of the regularly scheduled final exam (not makeup exam dates) as published in the course syllabus.
- Courses with a final assignment (e.g., project, paper): deadline to drop the course is prior to the scheduled submission deadline.
- Courses with both final written and final practical exams: deadline to drop the course is prior to date/time of the earliest scheduled final exam.
- Courses with both final written exam and final assignment: deadline to drop the course is prior to date/time/due date of the one that is scheduled earliest.
- Courses without a final exam or final assignment and/or with a final quiz only: deadline to drop the course is prior to the final scheduled course session.

To withdraw from a course, the student is required to meet with an Academic Advisor, as withdrawing from a course may impact a student's progress in their program of study. Please note the following considerations.

- A copy of the course syllabus with Final Date of Withdrawal must be submitted with the request for withdrawal.
- A student who fails to sit for a scheduled make-up exam is unable to withdraw from the course.
- A WD in a prerequisite for other courses precludes the student from enrolling in those courses until a letter grade is earned in the withdrawn course.
- A student may not withdraw from a course if the impact of the withdrawal results in a failure to meet satisfactory academic progress standards or will inhibit the student's ability to graduate within the maximum timeframe to completion (See Minimum Academic Requirements).
- (ND Program only) Clinical Skills Development Sessions may be required for a student who withdraws from a clinical clerkship.

### Dropped Courses/Refund Policy

Students who do not completely withdraw from the college but drop a course/clerkship during the published drop period will be refunded the difference in the tuition paid and the tuition rate applicable to the reduced number of hours, including course-specific fees assessed to the courses dropped.

There is no refund due to a student who partially withdraws from courses after the official add/drop period of the prescribed program of study.

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Tuition paid for intensive courses will not be refunded once the course has begun. Special drop deadlines may apply for certain courses. Deadlines will be included in quarterly registration notifications.

## Complete Withdrawal/Refund Policy

Complete withdrawal is defined as completely withdrawing from all courses (including a leave of absence). In the case of a complete withdrawal, the following tuition refunds apply and are dependent upon the withdrawal date.

The date of complete withdrawal for 11- or 12-week courses is the date the student provides written notice to an Academic Advisor, Registrar's office, or Dean of Students' office. Written notice via email is sufficient if the email is sent from the student's Sonoran University email account. In the case of a student who fails to notify the College of intent to withdraw, the date that is the midpoint of the term or the student's last documented date of an academically related activity will be considered the withdrawal date, whichever is the latest date.

Courses that are taught in sessions (courses that do not span an 11- or 12- week term) will be considered stand-alone courses for the purpose of withdrawal and refunds. Refunds are determined based upon the last date of attendance in relation to the course's official start date.

The percentage of time enrolled in each session will dictate the refund amount:

Withdrawal Date	Refund Calculations
Complete withdrawal before the start of the term	100% tuition and fees except for non-refundable fees as noted in Tuition and Fees
Complete withdrawal after the start of the session/term, or before 60% completion of the session/term	% tuition and non-refundable fees will be based on the federal guidelines formula as shown below, except for non-refundable fees as noted in Tuition and Fees
After the 60% completion point of the session/term	0% tuition and fees refunded

## Federal Formula

1. Percent Earned: Calendar days completed in the period of enrollment divided by total calendar days in the period of enrollment (excludes breaks of five or more consecutive days).
2. Payment Period: Sessions that are not scheduled for 11 or 12 weeks; the payment period only includes the calendar days in which the student is registered.
3. Refund Amount: Tuition charges for the period of enrollment multiplied by the percentage of unearned Title IV aid

This calculation determines the percentage of federal funds that have been earned by the school at the time of withdrawal and the amount of unearned funds that must be returned to the federal program. For more information, contact the Financial Aid Office at [finaid@sonoran.edu](mailto:finaid@sonoran.edu).

## Examinations and Course Assignments

Sonoran University values the pursuit of knowledge, research, and personal growth. These pursuits cannot be achieved without an adherence to ethical standards of behavior and honesty. As we embrace this quest for academic growth, we are guided by a Sonoran University Core Value: *Do the Right Thing*. Academic integrity is the commitment to and the demonstration of honesty and integrity within an academic or learning environment. It is important that students understand what constitutes academic integrity. The following paragraphs define Sonoran University's expectations of our students with respect to academic integrity and honesty.

### Examination / Assessment Standards

When taking in-person or online examinations or other individual graded assessments, students:

- Are expected to abide by Sonoran University's Code of Professional Conduct and Academic Honor as described in the Student Handbook. Cheating is a violation of the Sonoran University Code of Professional Conduct and Academic Honor policies and undermines the community of trust and integrity of which we are all stewards. Failure to follow the Code of Student Professional Conduct and Academic Honor policies as outlined in the Sonoran University Student Handbook will not be tolerated, and students in violation may be subject to disciplinary actions, including suspension and dismissal.
- Are expected to understand that taking a screenshot, photo, or transcribing questions and/or responses to questions or sharing answers with other students is strictly prohibited and constitutes cheating.
- Should encourage honesty and discourage dishonesty among other students.
- May not receive/send answers from/to other students (via text, instant message, phone, email, etc.)
- Must refuse to assist other students in cheating.
- Are expected to adhere to all expectations as outlined in course syllabi as well as examination/assessment instructions. Some examinations and assessments have specific requirements and unique expectations.

In addition to the expectations outlined above, when taking in-person or online examinations students:

- Are required to leave all books and other aids in an inaccessible spot, such as in the front of the room or in another room (exception: open-book tests).
- Are not allowed to talk to each other during an examination.

- Should place as much space between themselves and other students as possible, when necessary.
- Are encouraged to take the initiative to prevent others from copying their work.
- May not leave the room or virtual testing environment and return to the test without expressed permission by the faculty or proctor.
- If note/blank paper is allowed, all notes must be turned in with the exam or destroyed as instructed.

Students who violate any standard above will receive an automatic zero for the examination or assignment and are subject to disciplinary actions. For more information, see the Sonoran University Student Handbook, Integrity, and Academic Honesty.

### Missed Examinations, Assignments, and Absences

Students are expected to take all examinations at the scheduled time and day as well as complete examinations and assignments by the published deadline. This includes didactic and clinical exams, quizzes, assignments, activities, assessments, midterms, finals, and meeting attendance requirements as applicable. In exceptional situations, the course faculty may allow a student to reschedule a missed exam, provide a comparable learning activity/assignment, or permit an extension of an assignment deadline, depending on attendance, examination, and/or assignment specifications, due to an extenuating circumstance as defined in the Excused Absence Policy.

Absences must be reported (see Requesting an Excused Absence) prior to the absence, scheduled exam, or assessment deadline unless due to sudden emergency or the student's being incapacitated, in which case notifications are required upon resolution of the emergency or upon returning to class, whichever is sooner. Failure to submit documentation within this time frame will result in an Unexcused Absence.

The Dean of Students makes a determination as to whether the absence is excused, and the faculty at their discretion makes a determination as to the student's eligibility to receive a makeup exam or an extension on other classroom exercises, assignments, and assessments.

### Excused and Unexcused Absences

To request an Excused Absence, students must complete the following. Absence for presenting at a conference must be pre-approved by the program dean before completing the steps below:

1. The student must complete the Excused Absence Request Form and, when applicable, provide medical, religious, or other supporting documentation to the Dean of Students' Office. For non-acute illness,



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medical documentation from a neutral (non-supervisory) qualified licensed health care professional must accompany their Excused Absence Request Form.

2. Students must immediately notify the course faculty by email. Clinical clerkship faculty must be notified by phone.

The Dean of Students will evaluate the submitted excused absence request along with supporting documentation to determine whether it conforms to the Sonoran University Excused Absence Policy. The Dean of Students will issue either an Excused or Unexcused Absence decision. This decision is communicated to the student, the course faculty, and the program dean within one business day. The faculty will then notify the student as to whether or not the Excused Absence permits them to take a rescheduled exam, receive an assignment deadline extension, or complete a comparable learning activity/assignment. The format of any rescheduled exam will be determined by the faculty member, subject to any ADA testing accommodations required by law. Special Examination Fee(s) apply for missed exams (see Tuition and Fees).

Requests to reschedule tests or receive an assignment deadline extension, or comparable learning activity/assignment for Unexcused Absences are solely at the discretion of the faculty member and will be refused if deemed not within the parameters of the assignment, activity, and/or course syllabus.

Students who are not permitted to make up a missed examination or assignment and/or believe they were not provided fair treatment may utilize the College feedback or complaint procedures found in the [Student Solution Center](#) on MySonoran .

## Competency Examinations

As part of the transfer credit evaluation process, students may request to take a competency examination for select course transfer credit if a similar course has been completed more than seven (7) years prior to the start of the course. Due to complexity of scheduling and because it affects the student's schedule, competency examinations must be requested and approved prior to matriculation. Competency exams for all first-quarter courses must be completed prior to matriculation; all other competency exams for courses must be completed prior to the start of quarter two. Eligibility is determined on a case-by-case basis by the Registrar's Office, in conjunction with the faculty and the program dean. A syllabus of the previously completed course and other official documentation are required to determine eligibility. The competency examination applies only to the course requested and may not be used for another course.

Students may request to take a competency exam by submitting a request to Admissions or the Registrar's Office. Students may attempt a competency examination only once per approved course. If a student fails the competency examination, the student must enroll in the course. Course credit given through passing a competency examination may be reflected as transfer credit or grade of "S" Satisfactory on the transcript. Competency Examination Fee(s) apply (see Tuition and Fees). Clinical credits are not eligible for competency examinations.

## Standards of Satisfactory Academic Progress

Sonoran University is committed to excellence in educational quality and learning outcomes by providing a supportive academic environment to students. To help Sonoran University and students identify if the student is making progress toward the completion of their degree, the university sets standards of Satisfactory Academic Progress. (SAP). Federal regulations require Sonoran University to establish specific standards for measuring SAP for students receiving financial aid, which includes a quantitative measure (credit hours completed) as well as a qualitative measure (grade point average).

To meet Satisfactory Academic Progress at Sonoran University, students must:

- Successfully complete (earn) a cumulative number of required credits by the end of every calendar year (see Satisfactory Academic Progress for the prescribed program of study).
- Maintain a minimum career GPA (see Satisfactory Academic Progress for the prescribed program of study).

Failure to maintain either of these requirements will result in a student being placed on academic probation and/or being academically dismissed (see Good Academic Standing for more information).

## Grading Scale Policy

Faculty members are required to provide students with a course syllabus that outlines course requirements, including methods of evaluation that assess mastery of course content.

Core courses in the ND program will be graded A/B/C/F; clinical clerkships and lab/medicinary posts and some classes/selectives are graded satisfactory/ unsatisfactory (S/U). S/U graded courses have no effect on GPA and are noted in the course syllabus.

Core courses in the MS programs are graded A/B/F. Some selectives are graded satisfactory/unsatisfactory (S/U). S/U graded courses have no effect on GPA and are noted in the course syllabus.



# Institutional Policies

Please note, faculty are not required to round up grades to higher grades irrespective of relative percentages. Faculty may also adjust a final letter grade depending on extenuating circumstances while maintaining the academic integrity and learning objectives of the course.

## Grade Point Averages

The Grade Point Average (GPA) for each quarter is calculated by multiplying the point value of the grade received (see the following table) by the number of credits for each course. To calculate the GPA, add the credits, then add the grade points and divide the total points by the total credits. The same principle applies to the cumulative GPA reflected on the transcript. If a course is repeated, all grades earned are used in determining the GPA. Grades received at another institution are not included in the Sonoran University GPA. Grades specific to the Doctor of Naturopathic (ND) program are indicated next to the grade. Grades specific to the Master of Science (MS) programs are indicated next to the grade.

Grade	Description	Points	Percentage
A	Outstanding	4	90-100%
B	Very Good	3	80-89%
C (ND)	Average	2	70-79%
F (ND)	Fail	0	Less than
F (MS)	Fail	0	70% Less than 80%
AU	Audit	Taken	
I	Incomplete	Additional work required	
I/R	Incomplete/ Remediate	Additional work required	
S (ND)	Satisfactory	Pass/Credit earned	
U (ND)	Unsatisfactory	Fail/No credit earned	
T	Transfer	Graduate transfer	
WD	Withdrew	Withdrew	
WV	Waived	Requirements waived	
WIP	Work in Progress	Continuing course	

## Grade of Fail, Unsatisfactory

A grade of Fail (F)/Unsatisfactory (U) can seriously affect the student's academic progress and the student's eligibility for financial aid.

- A grade of U or F in a prerequisite for other courses precludes the student from entering those courses until the U/F has been rectified.
- In order to rectify the grade of U/F, the course must be repeated at the next available offering in the student's

prescribed program of study, with the exception of selectives,

- Students on federal financial aid should be aware of funding eligibility for repeating a failed course. Please see Financial Aid Policy for Repeat Coursework on page 17.

If a U/F is earned for the repeated course, the student will be academically dismissed. Both the original U/F and the grade given in the repeated course appear on the student's transcript. (See Academic Probation and Academic Dismissal for prescribed program of study.)

## Grade of Incomplete

If a student is unable to complete a course, the student may request a grade of Incomplete "I" using the Incomplete Grade Request Form on MySonoran. The student initiates the process by submitting the completed form to the course faculty, including supportive documentation. The Incomplete Request Form is to be completed collaboratively by the student and course faculty and serves to create a feasible course completion plan should the request be approved by the program dean.

The faculty will itemize unfinished coursework and sign the form, indicating preliminary approval, only if the student meets all minimum course completion requirements to receive a Grade of Incomplete:

1. The Grade of Incomplete does not contradict the course requirements as outlined in the course syllabus or other published course documents;
2. The student either:
  - a. Has completed at least 70% of the course duration, or
  - b. Has no more than 30% of grades outstanding;
3. The student is passing the course at the date of submission of the Grade of Incomplete request;
4. The request is submitted to the course faculty before the final week of the course;

If approved by the course faculty, the program dean will ensure:

1. The presence of a legitimate circumstance (i.e., serious illness, bereavement, or another unanticipated factor) beyond the student's control;
2. The course is not a repeat of a previously failed course;
3. Student is not on Probation II or Dismissal Appeal status.

If approved, the program dean will notify the faculty and student.

All work for the course must be completed by the Friday following completion of the course. Students are responsible for meeting all stated requirements. Any failure to meet these requirements will result in the Incomplete grade reverting to the cumulative grade calculation,

# Institutional Policies

including all assessments – completed or not – at the end of the course.

Incompletes for ND clinical clerkships will follow the Incomplete/Make-Up Policy and process outlined in the Sonoran University Clinical Handbook and do not require dean approval unless completion requires extension beyond the normal time period, as determined by clinical faculty.

Students on documented medical or military leave must resolve their Incomplete grade within four academic quarters. If the Incomplete grade is not resolved within four quarters, the Incomplete will be converted to the cumulative grade calculation, including all assessments – completed or not – at the end of the course. (See Medical Leave of Absence Policy or Military Leave of Absence Policy in the Course Catalog.)

## Grade Reports

Grade reports are available within two weeks of the end of the quarter for the prescribed program of study. Grades are considered a part of the student's educational record and will not be released to anyone other than the student or authorized school official or posted in any personally identifiable form. Grade reports are available upon request through the Registrar's Office and online through MySonoran.

## Grade Appeal Procedures

For courses taken in the College of Naturopathic Medicine, grade appeals must be initiated no later than the second Monday after the *quarter* has completed. For courses taken in the College of Nutrition, grade appeals must be initiated no later than the second Monday after the *course* has completed. Final grades are posted to the Student Services, Academic Records section in MySonoran. Grade appeals are only applicable for final course grades and will only be pursued if evidence and a valid basis are presented. The responsibility for presenting a case for appeal rests with the student.

### Students should consider only the following evidence when initiating a grade appeal:

- Final grade included a miscalculation of the course grades or final exam/assignment.
- Final grade deviated from the calculation of course grades as outlined in the course syllabus.

### The following situations do not serve as a valid basis for grade appeal:

- A dispute over how to interpret the syllabus.
- The grade change does not alter the final course grade.
- Comparing the course grading standards with another course.

## First Appeal

The student must submit an appeal using the online Grade Appeal form on MySonoran (see initiation deadlines above). Students must provide evidence to support their appeal. The Academic Services Manager has the responsibility to screen out frivolous or unsubstantiated appeals and report such findings to the student and faculty. At this time the student will have an opportunity to voice concern(s) about the grade received. The course faculty may elect to meet with the student and/or obtain additional information to further evaluate the student's concern(s) and will decide whether to maintain the original grade or submit a Grade Change Form to the Registrar's Office. A written notification of the decision will be provided to the student from the faculty within two (2) business days. Note, if the faculty is unavailable for the first appeal, the Academic Services Manager will advance the appeal to the next level supervisor.

## Final Appeal

If the grade appeal is denied by the course faculty, the student may appeal in writing to the next level supervisor: the appropriate Department Chair, Division Director, or Dean (DC, DD, Dean) within two (2) business days of notification of denial from course faculty. The DC, DD, or Dean may make a decision regarding the grade appeal with or without meeting with the student directly. If a meeting is granted, the DC, DD, or Dean may also request the course faculty be present for this meeting. The student will again have an opportunity to voice concern(s) about the grade received. The DC, DD, or Dean will have the chance to review the criteria by which the final grade is determined. The DC, DD, or Dean may elect to obtain additional information to further evaluate the student's concern(s) and will decide whether to maintain the original grade or submit a Grade Change Form to the Registrar's Office. A written notification of the decision will be provided to the student within two (2) business days. The decision is final and is not subject to further appeal or grievance.

## Academic Standing & Probation

### Good Academic Standing

Good academic standing is defined as maintaining a cumulative GPA at or above the minimum cumulative GPA requirement for their program (see Cumulative GPA Requirement for the prescribed program of study).

# Institutional Policies

## First Academic Probation

A student is subject to the first level academic probation (Probation I) if any of the following occur:

- The student's cumulative GPA falls below the minimum cumulative GPA requirement for their prescribed program of study (see Cumulative GPA Requirement for prescribed program of study).
- The student fails a course in their program of study.

Students placed on first academic probation will receive notification from the Registrar's Office, along with a notation on their transcript, and will be required to meet with academic advising for recommendations on how to improve their academic performance. Students placed on Probation will remain in this status for the duration of their program unless they progress to a higher probation status.

A student whose cumulative GPA projection shows an inability to recover to the minimum cumulative GPA requirement may be subject to dismissal or an Administrative Leave of Absence after being placed on the first level of probation.

## Second Academic Probation

Students are placed on a second and final level of academic probation (Probation II) if any of the following occur:

- The student's cumulative GPA falls below the minimum cumulative GPA requirement for their prescribed program of study (see Cumulative GPA Requirement for prescribed program of study).
- The student fails a course after being placed on the first level of academic probation.

Students placed on academic probation for the second time will receive notification from the Registrar's Office, along with a notation on their transcript, and will be required to meet with academic advising to discuss an Academic Agreement intended to improve performance.

A student whose cumulative GPA projection shows an inability to meet the minimum cumulative GPA requirement may be subject to dismissal or Administrative Leave of Absence after being placed on the second level of academic probation. Students placed on Probation II will remain in this status for the duration of their program unless they progress to a higher probation status.

## Academic Support for Probation students

To support students on academic probation, students are required to meet with academic advising to help navigate resources and support opportunities. Students on the first or second levels of academic probation will be required to complete an Academic Agreement during their meeting with academic advising. If the student is unable to continue in their prescribed program of study, the student may be placed on an Administrative Leave of Absence (ALOA) and

may not be eligible for financial aid. The student may be eligible to reenter their prescribed program of study as determined by the APPC and Sonoran University's ALOA policy (see Administrative Leave of Absence Policy). The Academic Probation notation remains on the student's transcript indefinitely. Students return to Good Academic Standing when their cumulative GPA meets or exceeds the minimum required as outlined for their program of study.

## Academic Dismissal

Students demonstrating unsatisfactory academic progress will be considered for dismissal from that academic program. After being placed on academic probation for the second time, a student will be considered for dismissal if any of the following occur:

- The student's cumulative GPA falls below the minimum cumulative GPA requirement for their prescribed program of study (see Cumulative GPA Requirement for prescribed program of study).
- The student does not meet the minimum academic requirements (see Minimum Academic Requirements for prescribed program of study). Credits for a course in which a student has withdrawn are calculated toward attempted total credits and are considered in determining satisfactory academic progress. Failure to meet satisfactory academic progress may result in dismissal.
- The student fails a course after being placed on the second level of academic probation.
- The student fails the same course for the second time during any portion of their enrollment (a course includes any didactic or clinical course in the prescribed program of study).

A failed course may be repeated one time only.

At any time in the program, Sonoran University reserves the right to dismiss a student when their academic record is deemed unsatisfactory. Likewise, a student whose total record shows considerable ability and marked improvement may be given special consideration.

A suspended or dismissed student may not participate in any program-sponsored activities. Additionally, they may be barred from the College's property during the suspension period and/or after dismissal, unless pre-approved permission is provided by the Dean of Students to attend meetings and/or hearings in person.

A student dismissed from their degree program will be ineligible for re-enrollment or re-admission to that degree program. Students who are concurrently enrolled and dismissed from one of their degree programs are not dismissed from the institution and may continue in the other program.

# Institutional Policies

Academic dismissal from one degree program does not preclude the student from admission to another degree program at Sonoran University. All academic records from the program from which a student was dismissed are reviewed to inform admission decisions.

## Academic Dismissal Appeal Process

The student has five (5) business days from the date the dismissal was issued in which to request an appeal to the APPC regarding dismissal. The student and appropriate program dean will receive a written notification from the Dean of Students regarding the outcome of the appeal.

If the dismissal is upheld, the student then has five (5) business days from the date the dismissal was upheld by APPC to appeal in writing to the appropriate program dean, whose decision is final. A student may not enroll in or attend any courses in that program and may not participate in any of that program's sponsored activities while the Dismissal Appeal process is pending. Additionally, they may be barred from Sonoran University's property unless pre-approved permission is provided by the Dean of Students to attend meetings and/or hearings in person.

Students who have been dismissed from an academic program will not be readmitted to that program under any circumstance.

## Academic Honor List

A full-time student who is enrolled in at least 12 didactic credits for the ND program or 4 didactic credits for the MS program and earns a quarter GPA of 4.0 shall be placed on the honor list for that quarter and will receive a letter from the dean of the program. Students are not eligible for the honor list in any quarter in which they receive an Incomplete or a Fail/Unsatisfactory grade. When an Incomplete is resolved, however, otherwise eligible students shall be added retroactively to the academic honor list for that quarter.

## Student Course Evaluations

Course evaluations provide opportunities for students to comment on their experiences in the classroom and their learning environment. Students are encouraged to complete evaluations near the end of each course. Course evaluations are anonymous; only aggregate results are reported to faculty and administration with no student identifiers included. The Academic Affairs Department tabulates the information from these evaluations and provides a report to faculty, department chairs, division directors, and deans and posts the aggregated program results to MySonoran. This information is used to inform

faculty and administration about the effectiveness of each course and the areas requiring improvement.

## Transcripts

A transcript is a student's official academic record of courses taken and grades earned. An official transcript will bear the signature of the Registrar as well as the official Sonoran University seal and will be sent directly to the address provided by the student. An unofficial transcript issued by Sonoran University is marked "unofficial." The degree earned by the student at Sonoran University is recorded on the transcript after conferral of the degree and completion of all graduation requirements for the prescribed program of study. Students are considered to be in good academic standing unless noted. The academic status of a student (such as suspended, academic dismissal, etc.), will be noted on the transcript.

Students may obtain unofficial transcripts via MySonoran. Sonoran University has contracted with Parchment for official transcript request processing. To request official transcripts, students should use the following link (posted on MySonoran, Academic Records page).

Note that a transcript fee applies:

<https://www.parchment.com/u/registration/32844185/accontor> (see Non-course-specific Charges).

Transcripts are issued within one week from the date the request is received. The Registrar's Office may not release transcripts or any certifications for non-enrolled students or graduates who have a financial encumbrance. Only Sonoran University transcripts may be released.

## Graduation

### Institutional Graduation Requirements

Candidates for all programs must fulfill the following institutional graduation requirements:

- Satisfactory completion of all courses in the prescribed curriculum
- Satisfactory discharge of all academic and/or disciplinary sanctions
- Fulfillment of all financial obligations to Sonoran University
- Recommendation from the Faculty Senate

See *ND Graduation Requirements for additional program requirements*.

### Graduation Ceremony Requirements

The minimum requirements to participate in the graduation ceremony include the satisfactory completion of all course and graduation requirements listed in the prescribed program of study, submission of the graduation application, and payment of the Graduation Audit Fee (see Tuition and Fees).

### Graduation/Issuance of Diplomas

Toward the end of a student's program, the Registrar's Office conducts a formal audit to determine satisfactory completion of graduation requirements. Results of the audit are provided to each student, who has the responsibility to respond to any deficiencies in order to fulfill requirements for graduation. The Registrar's Office issues diplomas four times a year following the conferral of the degree at the end of each academic term. The diploma is only issued when the student has fully satisfied graduation requirements for the prescribed program of study and all financial obligations to Sonoran University, including completion of the Federal Direct Loans exit counseling as applicable.

## Academic Achievement Awards

Each academic program recognizes graduating "with honors." The College of Nutrition recognizes all students graduating with a 4.0 cumulative GPA "with honors." The College of Naturopathic Medicine recognizes all students graduating with a 3.8 cumulative GPA or higher "with honors" and presents the award for "highest academic achievement" to the student(s) graduating with the highest GPA and the award for "high academic achievement" to the student(s) with the second-highest GPA. Highest and High

Academic Achievement awards require a student to have a cumulative GPA of at least 3.8. Students who fail or receive an unsatisfactory grade in any course are not eligible for graduation with honors. For more information, please contact the Registrar's Office.



# Student Support Services

## Student Support Services

### Student Affairs

The Division of Student Affairs is responsible for all enrollment and alumni services, promoting student support programs, and addressing student and Sonoran University-wide issues affecting the educational experience. Student Affairs actively supports student learning experiences and the educational environment. Guided by Sonoran University Core Values of We Achieve Excellence and We Love, Student Affairs is committed to supporting students during their academic and personal journey and helping them realize their professional goals.

The Division of Student Affairs includes the offices of: Admissions, Advising, Alumni, Financial Aid, Registrar, the Dean of Students, Learning Specialist, Career Services Center, and Welcome Center. These departments are committed to developing a positive student experience while providing support and services that respond to the needs of the Sonoran University campus-based and online learning communities. The majority of the Student Affairs Offices are located on the third floor of the Medical Center/Administration Building, with the Learning Specialist office and the Accessibility Office housed in the Library.

### Dean of Students

Phone: 480-222-9237

Email: [DOS@Sonoran.edu](mailto:DOS@Sonoran.edu)

The Dean of Students oversees the personal and educational progress of matriculated students, student feedback and concerns, appeals, judicial processes, and counseling of students; administers the student code of conduct; liaises with student government; and assists students in a wide range of areas and needs, including international student matters and ADA accommodations. Students are encouraged to contact the Dean of Students for information or assistance. A more complete description of the services provided by the Dean of Students' office is included on MySonoran and in the Sonoran University Student Handbook.

### Academic Advising

Phone: 480-222-9232 Email: [Advising@Sonoran.edu](mailto:Advising@Sonoran.edu)

Academic advising and student success support is available to all students through Student Affairs. Each student's academic progress is evaluated on a quarterly basis. Students are encouraged to meet with an Academic Advisor to assist with academic challenges, as well as life changes that would impact their progress in the program of study. Academic Advisors are available to guide and assist students throughout their program, but ultimately the choice

of courses and verification of requirements is the responsibility of the student. Doctor of Naturopathic Medicine students who deviate from the prescribed program track are required to meet with an Academic Advisor each quarter during the designated period to develop a schedule for the next quarter (see the [Academic Advising page](#) on MySonoran for more information). Academic Advising also oversees and administers the ND Community Service program.

### Learning Specialist

Phone: 480-222-9272

Email: [LearningSpecialist@Sonoran.edu](mailto:LearningSpecialist@Sonoran.edu)

The Learning Specialist provides academic support to Sonoran University students via individual and group sessions throughout the entire academic year. Students are encouraged to contact the Learning Specialist for information or assistance with the following services: tutoring, study skills assessments and strategies, test-taking strategies, test anxiety, organization, time management, and note taking. The Learning Specialist also assists in the development of personalized academic success plans. Tutoring is also offered throughout the week at the Doctorè Development Center on the Sonoran University campus and through online resources (see the [Learning Resources page](#) on MySonoran for more information).

### Career Services Center

Phone: 480-222-9311

Email: [CareerServices@Sonoran.edu](mailto:CareerServices@Sonoran.edu)

The Career Services Center assists Sonoran University students and alumni in pursuing and obtaining career opportunities. The Center supports students in developing prospective employment opportunities and mentors by providing information about health professions, curriculum vitae and cover letter preparation, and personal coaching. Conference and networking opportunities are also promoted by the Career Services Center to create a wealth of outside learning opportunities and professional relationships.

The Career Services Center maintains the Career Center on MySonoran, which includes career resources, networking opportunities, resume building advice, and webinars. Sonoran University does not guarantee job placement upon completion of the programs or upon graduation. The Career Services Center collects data on employment rates through annual student and alumni surveys; a summary of results is available on the College website.

# Student Support Services

The Center works with students in developing a personal action plan with the goal of securing a professional position prior to graduation. Students are encouraged to take advantage of the Career Services Center's programs early in their course studies (see the Career Center pages on MySonoran for more information).

## Counseling Services

Life in graduate/professional school is a time of great change and personal growth. For many students, there are times when all the demands and excitement may feel overwhelming. Sonoran University understands that students need many kinds of support to help them succeed and therefore offers counseling services to enrolled students (see the [Counseling Services page](#) on MySonoran for more information).

## Doctorè Development Tutoring Center

The Doctorè Development Center (DDC), founded in memory of former Sonoran University basic science faculty member Dr. Thomas Richards, is a formal, peer-based tutoring center staffed by current students in excellent academic standing. Tutors provide free virtual and campus-based one-on-one and group tutoring in a structured environment, helping with specific course content, study skills, time management, and general advice for students learning to adapt to the intensity of their respective programs. The Office of the Dean of Students works closely with the Learning Specialist to facilitate the DDC. This includes oversight of tutor selection, orientation, scheduling, and communication between tutors, students, faculty, and administration. The mission of the DCC is to create a supportive learning environment for students to develop their skills as future professionals.

## Welcome and Enrollment Center

The Welcome and Enrollment Center is a one-stop-shop that integrates visitor services, financial aid, registration and records, admissions, and support functions. Students can obtain admissions information, enrollment forms, financial aid assistance forms, general student records, and registration information and assistance at the Welcome and Enrollment Center. The Center is located on the first floor of the Sonoran University Lim Commons Building and is available by phone at 480.858.9100.

## Student Clubs and Organizations

Numerous organizations/clubs offer a diverse range of activities to supplement and augment the student educational experience, as well as provide social and professional opportunities. For more information on a student organization or to create a student organization, contact the SGA president or the Dean of Student's Office (see the [Clubs page](#) on MySonoran for more information).

## Student Government Association

Membership in the Sonoran University Student Government Association (SGA) is open to all currently enrolled students who are in good academic standing and who can serve as a positive and engaging representative for the student body and/or class cohort. The association represents the interests of the student body, acting as a liaison among the administration, faculty, and students. Elected representatives representing each program meet regularly. These representatives bring student concerns to the proper channels for resolution. There is student representation on the College Board of Trustees and other program-related regulatory boards and professional associations. The Dean of Students oversees all SGA activities and is available to respond to any additional questions or for clarification.

## Sonoran University Alumni and Alumni Association

Phone: 480-222-9296

Email: [Alumni@Sonoran.edu](mailto:Alumni@Sonoran.edu)

The Alumni Services Office within the Student Affairs Division connects alumni to the College through social, informational, and educational benefits and opportunities. For more information on alumni benefits or associations, please contact the Alumni Office or see the [Alumni page](#) on MySonoran for more information.

# Student Policies

## Student Policies

### Privileges, Rights and Responsibilities

Sonoran University expects students to be honest, responsible, and professional at all times. Our policies of student conduct are an expectation of student behavior, and these are upheld despite the location of the alleged incident or behavior. Students are expected to be respectful to others, both in and outside of the Sonoran University community; and to demonstrate professional behavior, accountability, and high ethical standards.

Sonoran University is committed to providing an educational environment for its students, with challenging and comprehensive coursework and practical experience; programs that enhance and assist students in their daily and professional lives; and practical, fair, and timely appeal and dispute procedures.

The following policies inform students of their rights, privileges, and responsibilities and outline the various administrative procedures. More detailed information about student-related policies and procedures are included in the Sonoran University Student Handbook and, for ND students, the Sonoran University Clinical Handbook. Copies of College catalogs and handbooks for viewing and downloading can be found on the College Website ([www.sonoran.edu](http://www.sonoran.edu)) or on MySonoran.

Sonoran University reserves the right to update policies and procedures pertaining to student rights and responsibilities as deemed necessary. Students may be informed of policy changes via e-mail or official updates to the Sonoran University Course Catalog, Sonoran University Student Handbook, or the Sonoran University Clinical Handbook at any time. Students are responsible for the most current version of these publications as they supersede all previous versions.

### Benefits at Sonoran University Medical Facilities

As a commitment to the health and well-being of our students, the Sonoran University Medical Center and Neil Riordan Center for Regenerative Medicine provide discounted medical care to Sonoran University students and their family, including their spouse, domestic partner, child (18 and under), and parents. Discounts are also available in the Sonoran University Medicinary and for certain services such as intravenous and injectable therapies. For more information, contact the Sonoran University Medical Center.

### Campus Safety and Security

Sonoran University meets OSHA standards for a safe workplace in an institution of higher learning. Students are asked to immediately report any unsafe conditions to the Facilities Office directly by contacting [facilities@Sonoran.edu](mailto:facilities@Sonoran.edu) or by submitting a [safety/incident report form](#). Any on-campus student injury must be reported to the Dean of Students and the Facilities Office immediately.

The Federal Campus Security Act of 1990 requires that an annual report on campus crime be made to members of the Sonoran University community. This report is available on the Sonoran University website and in the Facilities Office. All buildings are locked nightly. Any security issues or concerns should be reported to the Facilities Office. Students should be aware of personal security practices, including being observant of their surroundings at all times, locking automobiles, walking in the evening in pairs, and guarding belongings. Students requesting a security escort to their vehicle may contact the Facilities Office at any time for assistance.

### Community Service Program

Doctor of Naturopathic Medicine students are required to complete 45 hours of community service before graduation. These may be acquired through direct service to any area of Sonoran University, including offsite locations, through leadership and mentor activities to other students, participation in ongoing research projects, or through any appropriate activity in the community. Activities that are required aspects of the student's normal curriculum do not qualify for community service hours. The community service program, overseen by the Registrar's Office, is intended to not only benefit community, but as a means of outreach to the general community. Students are highly encouraged to give their time to other organizations and projects. Students do not receive academic credit or pay for these activities (see The [Community Service page](#) on MySonoran for more information).

### Courtesy Phones

Courtesy phones are available in the student lounge area in the Academic Building at Sonoran University and the medical reference room at the Medical Center. Students are asked to limit their calls to allow all students access to the phones. Students are not permitted to use Sonoran University office or Sonoran University Medical Facility phones without permission. Only emergency messages will be taken by Sonoran University personnel and will be communicated appropriately and promptly whenever possible.

# Student Policies

## Criminal Conduct/Theft

Theft is considered an infraction of the Student Professional Code of Conduct and Academic Honor (see Sonoran University Student Handbook). All students are expected to observe national, state, and local laws and ordinances. Conduct that Sonoran University officials think violates laws and ordinances will be reported to the proper authorities. Conduct that violates Sonoran University Code of Conduct will be handled according to the prevailing student disciplinary process and may result in suspension or dismissal. Please see the Sonoran University Student Handbook for more information or contact the Dean of Students.

## Employment at the College

Sonoran University offers campus-based students federal work study (FWS) and other employment opportunities as needs arise. FWS students must be in good academic standing to be eligible for employment at Sonoran University (See Good Academic Standing page 31). More information on student employment at Sonoran University is available in the Sonoran University Student Handbook.

## Housing

While Sonoran University does not provide student housing, information on housing near campus may be obtained through MySonoran Forum section. Prospective and current students may also advertise for roommates or housing on designated campus bulletin boards.

## Identification Cards

All Sonoran University students are issued a Sonoran University photo identification (ID) card. On-ground based students will receive their ID card during orientation. Students enrolled in online distance education programs will receive their ID by mail approximately two weeks after their first class starts. All students are required to wear and keep their photo ID in their possession at all times when on campus or at any Sonoran University-affiliated site (see ID Card Policy on MySonoran). The photo ID is used as a security measure and is required for students to gain access to various academic buildings, as well as certain services such as library borrowing and copy/printer privileges. The first card is provided free of charge. Replacement cards are available for a fee (see Tuition and Fees).

## Lobbying/Political and Legislative Activity

The tax-exempt status of Sonoran University affects all staff and students. Tax-exempt organizations are limited in their political and legislative activity, even if the lobbying activity would contribute directly and substantially to meeting

Sonoran University's tax-exempt purposes. Lobbying is also prohibited on Sonoran University premises, using Sonoran University technology, or at any Sonoran University function unless the activity is pre-approved by the President and the Dean of Students within 15 days of the event.

## Medical Student Conduct

Unethical conduct of naturopathic medical students, including practicing without a license, will be reported to the State of Arizona Naturopathic Physicians Medical Board, in compliance with Arizona statutes.

## Personal Property

Sonoran University is not responsible for the personal belongings of students while on campus. All students are encouraged to safeguard and secure personal belongings and to remove them at the end of each class session. Students should be aware that many spaces on campus can be accessed by the general public. Any items found in the classrooms during cleaning will be removed. Please check with the Welcome and Enrollment Center for lost items. Sonoran University reserves the right to inspect campus property and personal property used on Sonoran University premises.

## Safety and Prevention Courses

As part of our ongoing effort to support the health and safety of our entire Sonoran University community, Sonoran University partners with a third party to offer online training courses. These courses are not for credit and are free to students. Sonoran University requires all incoming students to complete Alcohol EDU, Diversity, Equity and Inclusion, and, to ensure compliance with Title IX and the Clery Act. Sexual Assault Prevention courses. Additionally, prior to graduation, ND students are required to complete Prescription Drug Abuse Prevention and Sexual Assault Prevention – Ongoing courses. This requirement is enforced during registration and applies to all degree-seeking students regardless of full- or part-time status.

## Harassment Prohibition – Sexual and Other

Sonoran University has a strict policy against sexual harassment or sexual discrimination and harassment based on any legally protected basis. Conduct constituting sexual harassment, as defined herein, toward another person of the same or opposite sex is prohibited by this policy. The University explicitly prohibits harassment of any kind, both in person and in electronic formats. It is a violation of policy for any student to engage in any act or behavior constituting



# Student Policies

harassment toward any student, employee, vendor, customer, consultant, or any other individual or group of individuals with whom the institution interacts or does business. For complete information on Sonoran University's policies on harassment, please see the Sonoran University Student Handbook.

## Definition of Sexual Harassment

Sexual harassment is defined as unwelcome sexual advances, requests for sexual favors, both in verbal and electronic formats, and physical conduct of a sexual nature when:

- Submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or a student's standing; or
- Submission to or rejection of such conduct by an individual is used as the basis of employment or school decisions affecting such individual; or
- Such conduct has the purpose or effect of unreasonably interfering with an individual's work or school performance or creating an intimidating, hostile, or offensive working or school environment.

Sexual harassment takes many forms; examples of conduct which might be considered sexual harassment under this policy include but are not limited to:

- Sexual exploitation of a relationship between individuals of unequal power and authority
- Sexual exploitation of a relationship between peers and students that could affect the workplace or educational environment
- Repeated and unwanted requests for dates, sexual flirtations, or propositions of a sexual nature
- Subtle pressure for a sexual relationship
- Sexist remarks about a person's clothing, body, or sexual activities
- Unnecessary touching, patting, hugging, or brushing against a person's body
- Direct or implied threats that submission to sexual advances will affect or be a condition of employment, work status, or academic standing
- Physical assault
- Conduct of a sexual nature that causes humiliation or discomfort, such as use of inappropriate terms of address
- Sexually explicit or sexist comments, questions, or jokes, in writing or on t-shirts
- Conduct of a sexual nature that creates a hostile work or educational environment

For Sonoran University's Sexual Violence/Assault Reporting form: <https://sexual-violence-assault-form.questionpro.com/>.

## Definition of Other Harassment

Arizona law defines harassment as "conduct that is directed at a specific person and that would cause a reasonable person to be seriously alarmed, annoyed or harassed" (ARS 13-2921). Additionally, it is any course of conduct which annoys, threatens, intimidates, alarms, or puts a person in fear of their safety. Harassment is based on, but not limited to, race, ethnicity, gender, social-economic background, religion, sexual orientation, gender expression, gender identity, age, disability, veteran status, nationality, thinking styles, or life experiences or any other protected or status related to a minoritized, or marginalized identity is a violation of federal and state law.

Sonoran University is committed to achieving a learning, working, and patient care environment that is free of bias, harassment, and conduct seen as inappropriate. The Diversity Incident Response Policy outlines how the institution addresses any behavior related to bias, harassment (not sexual), and discrimination towards another student. Employee, vendor, patient or other individuals or group who the institution interacts with. For more information on Sonoran University's policy on Diversity Incidents as well as its process, please visit [https://my.sonoran.edu/ICS/icsfs/SCNM\\_Diversity\\_and\\_Inclusion\\_Policy\\_Final\\_10\\_10\\_11.pdf?target=5bfdb96c-41c6-4006-bd50-e0bc3146aa89](https://my.sonoran.edu/ICS/icsfs/SCNM_Diversity_and_Inclusion_Policy_Final_10_10_11.pdf?target=5bfdb96c-41c6-4006-bd50-e0bc3146aa89).

For the Bias Incident Report Form, please visit <https://forms.office.com/pages/responsepage.aspx?id=BA0K2UhH30SJG3oAM0LkZ7aAgxihE4xOrXZuNqGAX6IUQTRLNEsxNEdJQ01TOVZNSExRSIVVOVIYNS4u&wdLOR=c5C9BC175-7EE9-42D3-8EEB-DAE4930B20DD>.

Examples of conduct that may constitute harassment based on a legally protected class include, but are not limited to:

- The use of slurs based toward any protected group
- Epithets or negative stereotyping
- The use of socially unacceptable words at the workplace or in an online environment, even between students, employees, patients, vendors, or visitors of the same protected class
- Hazing
- Printed or digital materials that show hostility towards any legally protected class.

Harassment is defined to include any nonverbal, verbal, or physical conduct that creates an intimidating, hostile, or offensive learning, work, or patient care environment that unreasonably interferes with an individual's ability to carry out their roles and responsibilities.

## Discipline/Consequences

Any student who permits, does not report, or engages in sexual or other prohibited harassment will be subject to disciplinary action, including dismissal. Legal action is also



# Student Policies

possible in addition to academic consequences. Any person who is a victim of or knows someone who is the victim of such harassment behavior must immediately contact the Title IX Deputy Coordinator (Dean of Students), and/or the Title IX Coordinator (Director of Human Resources) if a faculty or staff member is involved. Find the Sexual Incident Reporting Form [here](#).

Upon notice, a Title IX Coordinator will promptly investigate each complaint of harassment as thoroughly and as confidentially as possible and will take appropriate corrective action on all confirmed violations of this policy.

At the end of an investigation, a Title IX Coordinator will put the findings in writing and forward a copy to the Vice President of Student Affairs and the President, if a faculty or staff member is involved. The findings of the complaint and the action to be taken will be reported to the complainant and the alleged harasser as expeditiously as possible. Results may be indeterminate. If so, the matter will be recorded as unresolved, and record of the investigation will be maintained in a separate file apart from any personnel or student file. If an individual is found to have engaged in sexual or other harassment, he/she is subject to all disciplinary action for violation of this policy up to and including suspension and/or dismissal as is consistent with existing policies and procedures. This policy explicitly prohibits retaliation against an individual who in good faith makes a formal complaint of sexual or other harassment. Sonoran University will not allow reprisal in any form against any complaining party or corroborating witness. By the same token, irresponsible and frivolous complaints or accusations will not be tolerated and may be subject to a Code of Conduct investigation.

## Drug and Alcohol Abuse and Prevention Policy

Sonoran University, its Medical Center, Neil Riordan Center for Regenerative Medicine, and all affiliated patient care sites are in full compliance with the Drug-free Workplace Act of 1988 and Drug-free Schools and Communities Act of 1989. Sonoran University will not tolerate and will act against the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance by any student or personnel at Sonoran University, its Medical Center, Neil Riordan Center for Regenerative Medicine, through Sonoran University online resources, or any Sonoran University-affiliated patient care site or business. No student or employee is permitted on the Sonoran University campus or clinics' premises while under the influence of alcohol or illegal drugs. Use, possession, or distribution by a student or employee of illegal drugs on or off Sonoran University premises is a

major offense, and such persons are subject to dismissal or immediate suspension, if proved in violation of this policy.

## Higher Education Act – Drug Provision

Students are required to annually review Sonoran University's Alcohol and Drug Abuse and Prevention Policy. Drug and alcohol prevention information will be provided on the Sonoran University website and through annual emails to ensure that students have read and are aware of Sonoran University's Alcohol and Drug Abuse Prevention Policy as required by the Higher Education Act (HEA) Drug Provision, amended in 1998. For complete information on Sonoran University's Alcohol and Drug Abuse Prevention Policy, see the Student Handbook.

## Personal Appearance and Professional Behavior

Students are expected to maintain a clean and neat appearance at all times while on campus, attending college events, and engaging in online courses. Clothing with offensive graphic designs or statements are prohibited. Footwear must be worn on campus and in campus buildings. Close-toed shoes are required footwear in the Sonoran University Medical Center, Medicinary, and Neil Riordan Center for Regenerative Medicine facilities at all times. Professional attire is expected at all Sonoran University medical facilities. For complete dress guidelines in clinical environments, please see the Clinical Handbook.

## Non-student Campus Visitors

### Animals on Campus

Certified service animals, as approved by the Accessibility Services Administrator are permitted on campus. All service animals are required to wear a visibly identifiable recognition of their function at all times and are required to be appropriately trained for their respective duty. Owners are responsible for any damages that may occur to facilities due to improperly trained service animals. All other animals, including emotional support animals, are prohibited from campus.

### Children on Campus

Children are permitted on campus with the following conditions:

- Children are allowed in common areas with adult supervision but are prohibited from all classrooms and labs.
- Children under the age of 12 must be accompanied by an adult at all times, including in the Sonoran University

# Student Policies

Medical Center, Neil Riordan Center for Regenerative Medicine, Medicinary, and the Café.

- Children under the age of 6 months are not permitted on campus except when receiving care at the on-campus clinic.

Sonoran University assumes no responsibility or liability for infants/children under their parent's or guardian's care.

## Visitors on Campus

Students may have visitors, including children, friends, and family members, on Sonoran University premises subject to the following requirements:

- All visitors must check in at the Welcome Center in the Lim Commons Building upon each visit and receive a visitor badge, which must be in full display while visiting. Exceptions are for visitors who only utilize the Café facilities.
- Students are expected to accompany their visitors while on campus.
- Visitors are prohibited from all classrooms and labs.

Visitors are responsible for their actions while on campus and are expected to conduct themselves in a respectful manner. Visitors causing any disruptions to the learning environment may be asked to leave the campus and/or may lose future visitation privileges.

## Food in Classrooms and Laboratories

The consumption of food and drinks, within reason, is permitted in the classroom. However, students are asked to be considerate of others and to avoid consuming food items that create messes, smells, and/or noise. Students are expected to dispose of all trash and clean up after themselves. All classrooms offer food-free zones in the front of the room. For health and safety reasons, neither food nor beverages are allowed in the laboratories or in any patient-contact area, with the exception of bottled water.

Where necessary to address a documented ADA accommodation, the school reserves the right to implement a ban on either specific foods and beverages or a total ban of all items in the classroom, as required for the health and safety of other community members. Students will be notified at the beginning of the term if there is any such ban, its scope, and the items covered. For more information, please see the Consumption of Food and Beverage in Instructional Areas policy on MySonoran.

## Sonoran University Photographs, Images, and Recordings

In order to promote Sonoran University and our Medical Centers through various media, including but not limited to television, the Sonoran University website and affiliated social media sites, magazines, journals, newspapers, and internally developed publications and advertisements, faculty, staff, and students may be photographed and/or video recorded. Sonoran University retains ownership and reserves the right to publish these photographs and videos. From time to time, Sonoran University community members may be asked to meet with a reporter or photographer who wishes to learn more about the institution. If a member of the media contacts you directly, refer the request to the Marketing Department, [marketing@Sonoran.edu](mailto:marketing@Sonoran.edu). Sonoran University allows the recording of lectures, presentations, and events for personal use only. Recordings may not be posted to the internet or used in any social media without express approval of the person(s) being recorded. For complete information, please see the Sonoran University Student Handbook.

## Unresolved Student Appeals and Complaints

Any student has the right to submit an appeal or complaint related to their grades, dismissal, readmittance, or as it relates to a specific academic, policy, process, and other general activities at Sonoran University. Complete information on the policies and specific applications concerning appeals and complaints procedures is available in the Student Handbook. Student complaint and appeal forms can be found on MySonoran. If the student's issue cannot be resolved after exhausting the institution's procedures, the student may file a complaint with the Arizona State Board for Private Postsecondary Education. The student must contact the state board for further details:

Arizona State Board for Private Postsecondary Education  
1740 West Adams, Suite 3008, Phoenix, AZ 85007  
602.542.5709 | <https://ppse.az.gov/>

## State Authorization Reciprocity Agreement (SARA) Complaints

For out-of-state\* students taking a distance education course through Sonoran University who reside in SARA states, the Arizona SARA Council has jurisdiction over Arizona SARA-participating institutions including Sonoran University in relation to non-instructional complaints.

# Student Policies

Instructional complaints, such as grade appeals, are not reviewed by the Arizona SARA Council and should not be submitted for review. Prior to registering a non-instructional complaint with the Arizona SARA Council, the student/complainant must first complete Sonoran University's Complaint Process. If the complaint is not resolved through Sonoran University's process, the student/complainant should submit their complaint to the [Arizona State Board for Private Post-Secondary Education's Complaint Procedure](#).

If the non-instructional complaint has not been resolved through the complaint processes of either Sonoran University or the Arizona State Board of Private Post-Secondary Education, the complaint may be submitted to AZ-SARA via <https://azsara.arizona.edu/content/complaint-process>.

*\*Students of Sonoran University residing in California can file financial or academic complaints online at [www.dca.ca.gov](http://www.dca.ca.gov) or call toll-free (833) 942-1120.*

## Sonoran University Library

The Sonoran University Library augments the curriculums by providing knowledge-based resources of core medical books, journals, and electronic databases in general and naturopathic medicine, as well as in the field of nutrition.

Visit the library to study, check out books, ask for research help, or use the desktop computers. Computers in the library are equipped with high-speed internet, on-demand printer capability, and the latest software. The copy machine and campus-based student mailboxes are also located in the library. The library has quiet study areas, including enclosed study rooms for private or group study. The study areas are accessible during building hours, and the front desk is staffed on weekdays, closing on Saturday, Sunday, term breaks, and campus holidays.

## Collections

The library print collection specializes in topics of acupuncture, botanical medicine, homeopathy, hydrotherapy, mind-body, clinical nutrition, dietary supplements, and traditional Chinese medicine, in addition to materials on the basic sciences. This collection numbers approximately 6,500 titles. The collection also includes a rare and historical naturopathic medical book collection dating back to the early 1800s. A single copy of each required textbook can be found in the reserves collection.

An increasing number of electronic books, journals, and specialized medical, naturopathic, clinical nutrition, and business-related databases supplement the print collection. The electronic database resources are accessible through wi-fi on campus with any personal computing device, or

from the desktop computers on campus, as well as remotely from off-campus.

Finding items on the library shelves, in electronic books and journals, or in PubMed is simplified by using the iSearch tool, which can be found on the library home webpage at <https://my.sonoran.edu/ICS/Library/>.

## Library Services

The library offers instruction about library resources, research assistance, interlibrary loan, classroom instruction, computer assistance, and exam proctoring. Requests can be made through Interlibrary Loan for journal articles that are not available from the Sonoran University Library and are provided at no cost to students in good standing.

## Account

A library account is created for students, enabling them to:

- Renew items checked out
- Place holds on books
- Check for library fines
- Review items checked out
- Request articles through Interlibrary Loan
- Send messages to the library

## Borrower Privileges

- Check out books and multi-media items
  - Remotely log into electronic databases
  - Request journal articles through Interlibrary Loan
- See Tuition and Fees for applicable library fines

## Affiliation and Membership with Library Organizations

- Arizona Health Information Network (AzHIN)
- Central Arizona Biomedical Libraries (CABL)
- Medical Library Association (MLA)
- Medical Library Group of Southern California and Arizona (MLGSCA)
- National Network of Libraries of Medicine (NN/LM)

## Library Policies

The library encourages a quiet study environment. All patrons must act responsibly and abide by library policies. The library has the right to deny services to patrons who violate policies as noted below.

- Drinks with lids and snack foods are permitted in the library, except in study rooms that are clearly marked as food and beverage free

# Student Policies

- No animals, other than service animals, allowed
- Children must be accompanied by an adult
- Cell phone calls must be taken outside of library

## Library Privileges during a Leave of Absence

Enrolled students at Sonoran University have full borrower privileges and full access to electronic databases. Students approved for an LOA must return all library items and pay any outstanding fines prior to LOA approval. Depending on the type of leave of absence, students may not have borrower privileges or remote access to electronic databases.

Leave of Absence Type	Library Privileges
Medical, Military, Academic, or Personal LOA/ALOA	Full Privileges and Full Access
College Dismissal	Guest Access*
College Dismissal Appeal	Guest Access*
College Suspension	Digital Access Only
College Withdrawn	Guest Access*

### Guest Access

Guests are welcome to visit the Library on campus and utilize any resources while in the Library. Checking out materials and off-campus access to electronic resources are not available to guests.

### Alumni Library Privileges

The Sonoran University library supports students as they move forward into their professional careers; and for six months after graduation, graduates have full access to all library resources. Lifelong library benefits for alumni include materials check-out and interlibrary loan.

While alumni cease to have remote access to electronic medical databases, they will have access to other library resources on MySonoran that offer graduates web links and Open Access resources, as well as a few unique resources and materials only accessible through personal MySonoran log-in. This includes using the iSearch feature to locate and identify resources

# Doctorate Program

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# ND Program Information

## Doctor of Naturopathic Medicine (ND) Program

### Philosophy

Naturopathic medicine concentrates on whole-person wellness; the medicine is tailored to the patient and emphasizes prevention and self-care. Naturopathic medicine attempts to find the underlying cause of the patient's condition rather than focusing solely on symptomatic treatment. Naturopathic doctors cooperate with all other branches of medical science, referring patients to other practitioners for diagnosis or treatment when appropriate.

Naturopathic doctors (NDs) are primary care physicians clinically trained in natural therapeutics with a philosophy derived in part from a Hippocratic teaching more than 2,000 years old: *vis medicatrix naturae*—nature is the healer of all diseases. Their practice is based on the same basic biomedical science foundation as that of allopathic practice. However, their philosophies and approaches differ considerably from their conventional counterparts.

Naturopathic doctors diagnose disease and treat patients by using natural modalities such as physical manipulation, clinical nutrition, herbal medicine, homeopathy, counseling, acupuncture, and hydrotherapy, among others. They choose treatments based on the individual patient, not based on the generality of symptoms. This approach has proven successful in treating both chronic and acute conditions.

The precepts that guide the practice of naturopathic medicine include the Seven Principles of Naturopathic Medicine, The Therapeutic Order, and The Components of Patient Centered Care.

### Naturopathic Principles

These seven principles guide the therapeutic methods and modalities of naturopathic medicine.

#### First Do No Harm

##### **primum non nocere**

Naturopathic medicine uses therapies that are safe and effective.

#### The Healing Power of Nature

##### **vis medicatrix naturae**

The human body possesses the inherent ability to restore health. The physician's role is to facilitate this process with the aid of natural, nontoxic therapies.

#### Discover and Treat the Cause, Not Just the Effect

##### **tolle causam**

Physicians seek and treat the underlying cause of a disease. Symptoms are viewed as expressions of the body's natural attempt to heal. The origin of disease is removed or treated so the patient can recover.

#### Treat the Whole Person

##### **tolle totum**

The multiple factors in health and disease are considered while treating the whole person. Physicians provide flexible treatment programs to meet individual health care needs.

#### The Physician Is a Teacher

##### **docere**

The physician's major role is to educate, empower, and motivate patients to take responsibility for their own health. Creating a healthy, cooperative relationship with the patient has a strong therapeutic value.

#### Prevention Is the Best "Cure"

##### **praevenire**

Naturopathic physicians are preventive medicine specialists. Physicians assess patient risk factors and heredity susceptibility and intervene appropriately to reduce risk and prevent illness. Prevention of disease is best accomplished through education and a lifestyle that supports health.

#### Wellness

##### **Salus**

Establish or re-establish health and well-being.

### Therapeutic Order

#### Re-establish the basis for health

Remove obstacles to cure by establishing a healthy regimen

#### Stimulate the healing power of nature

Use various systems of health such as botanicals, homeopathy, Chinese medicine, Ayurvedic medicine, nutrition, and mind-body medicine

#### Tonify weakened systems

Use modalities to strengthen the immune system, decrease toxicity, normalize inflammatory function, optimize metabolic function, balance regulatory systems, enhance regeneration, and harmonize life force

# ND Program Information

## Correct structural integrity

Use therapeutic exercise, spinal manipulation, and massage, cranial-sacral to return to optimal structural condition

## Prescribe specific natural substances for pathology

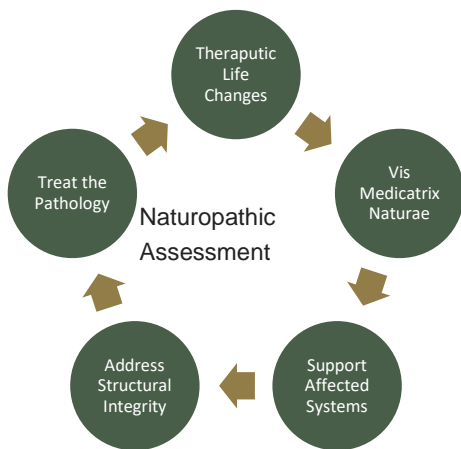
Use vitamins, minerals, and herbs to return to and promote health

## Prescribe pharmacotherapy for pathology

Use pharmaceutical drugs to return to and promote health

## Prescribe surgery, pharmacotherapy

Use aggressive therapies to attempt to maintain health



Taken from “A Hierarchy of Healing: The Therapeutic Order” Pamela Snider, ND; Jared Zeff, ND, Lac; and Stephen Myers, ND, BMed, PhD.

## Components of Patient-Centered Care

- Exploring the disease and the patient’s illness experience
- Understanding the whole person
- Finding common ground with the patient regarding management/treatment options
- Incorporating prevention and health promotion
- Enhancing the doctor-patient relationship
- Being realistic

Adapted from: Huang, WY. Fam Med 2002;34 (9):644-5

## Licensure

At the time of this printing, 22 states, the District of Columbia, the U.S. territories of Puerto Rico and the U.S. Virgin Islands, and five Canadian provinces have licensing

laws for naturopathic physicians. In these states naturopathic physicians are required to graduate from an approved four-year naturopathic medical school and pass extensive postdoctoral board examinations in order to receive a license.

The North American Board of Naturopathic Examiners (NABNE) administers and provides the Naturopathic Physician Licensing Examination (NPLEX), which is comprised of biomedical science and clinical science examinations that are used in North America to license graduates of approved naturopathic medical schools. Once licensed, naturopathic physicians must practice within a specific scope of practice defined by their state’s laws and fulfill state-mandated continuing medical education requirements annually. It is the responsibility of the student/graduate to determine the licensure laws or scope of practice in the state in which they intend to practice. Naturopathic physicians practicing in the state of Arizona enjoy one of the broadest scopes of practice within the United States. The state of Arizona Naturopathic Physicians Medical Board (NPMB) regulates the practice of naturopathic medicine in the state of Arizona. This includes applications and fees for students planning to enter clinical training and new graduates applying for licensure.

### *For more information about licensure in Arizona, contact:*

**Arizona Naturopathic Physicians Medical Board**  
1740 West Adams, Suite 3002, Phoenix, AZ 85007  
Phone: 602.542.8242 | [www.nd.az.gov](http://www.nd.az.gov)

### *For more information about licensure in the United States and its territories, contact:*

**American Association of Naturopathic Physicians (AANP)**  
300 New Jersey Ave Northwest, Suite 900, Washington, DC 20001  
Phone: 202.237.8150 | [www.naturopathic.org](http://www.naturopathic.org)

### *For more information about licensure in Canada, contact:*

**Canadian Association of Naturopathic Doctors (CAND)**  
20 Holly Street, Suite 200, Toronto, Ontario, CAN M4S 3B1  
Phone: 800.551.4381 | [www.cand.ca](http://www.cand.ca)

### *For information about licensing examinations for the U.S. and CA., including NPLEX, contact:*

**North American Board of Naturopathic Examiners (NABNE)**  
9220 Southwest Barbur Boulevard, Suite 119, #321, Portland, OR 97219  
Phone: 503.246.0694 | [www.nabne.org](http://www.nabne.org)

# ND Program Information

## Scope of Practice

As Arizona maintains one of the widest scopes of practice in the United States for naturopathic medicine, the physicians practice general medicine and utilize a wide variety of therapeutics including diet and lifestyle modifications, nutritional supplementation, botanical medicine, homeopathy, counseling, mind-body medicine, Chinese medicine, acupuncture, naturopathic manipulative therapies, physical medicine, hydrotherapy, minor surgery, prolotherapy, IV micronutrient therapy, and pharmacotherapy. The Sonoran University Medical Center and Neil Riordan Center for Regenerative Medicine offer opportunities for students to work with a diverse group of medical practitioners including naturopathic physicians, medical doctors, a Chinese medical doctor, and acupuncturists.

Sonoran University is committed to providing students diverse clinical settings to deliver patient care. In addition to clinical clerkships at the Medical Center and Neil Riordan Center for Regenerative Medicine, Sonoran University physicians and students provide care to underserved patient populations at a variety of community clinics. These clinics are staffed by faculty members who oversee both the students' education and the patients' care. The community clinics provide students access to a broad range of patient populations and disease conditions not regularly seen at the Sonoran University medical facilities (see Extended Sites Community Clinics).

The legal aspects of practicing naturopathic medicine vary by state in the United States and by province in Canada. In those states and provinces in which naturopathic physicians are licensed, NDs may see patients for general healthcare and for the diagnosis and treatment of acute and chronic conditions. Their scope of practice may include nutritional science; botanical medicine; naturopathic manipulative therapies and other physical medicine; Chinese medicine; acupuncture; homeopathy; mind-body medicine; natural childbirth; minor surgery; prescriptive authority, including immunizations; and all methods of laboratory, x-ray, and clinical diagnoses.

## Practicing Without a License

In Arizona, practicing naturopathic medicine without a license involves the diagnosis or treatment of any patient by an unsupervised naturopathic medical student or any other unlicensed person where money may or may not be exchanged. Arizona Revised Statutes (ARS Title 32) defines practicing without a license as any conduct involving the unauthorized, intended, or perceived practice of any of the healing arts, including but not limited to the unauthorized practice of naturopathic medicine or other healing arts, regardless of whether the violation ultimately results in conviction or prosecution under relevant laws, and regardless of whether the violation results in any sanction or other formal or informal action by any administrative or regulatory body outside the College. For more information, please see the Sonoran University Student Handbook.

# ND Program Information

## ND Admissions

Applicants are required to meet and adhere to the Institutional Admission Policies and Requirements as well as the Admission Policies and Requirements for their specific program (see the Institutional Admissions Policies). This section contains admission policies and requirements specific to the Doctor of Naturopathic Medicine program.

### Deadline for Application

Sonoran University accepts applications on a rolling basis until all spaces are filled. Application deadlines are listed below. Candidates are encouraged to apply on or before the early decision date.

#### College of Naturopathic Medicine

Spring Start (mid-April)

- Early Decision – August 1 of prior year
- Priority Deadline – December 1 of prior year

Fall Start (early October)

- Early Decision – November 1 of prior year
- Priority Deadline – March 1 of same year

## ND Admissions Requirements

Prospective students who wish to enter the Doctor of Naturopathic Medicine program in the 2022-2023 academic year must complete and submit the following requirements prior to matriculation.

1. 4-year Baccalaureate degree or equivalent (contact admissions for requirements) is required. Total postsecondary coursework must be completed at an accredited or candidate college or university. Within the U.S., accreditation must be recognized by the U.S. Department of Education. If degree was earned outside of the U.S., please see International Applicants for more information.
2. Complete all prerequisite coursework with a minimum GPA of 3.0 at a regionally accredited or candidate college or university prior to matriculation into the ND program. (Applicants with science courses older than seven (7) years must demonstrate competency in the discipline(s) in question and will be evaluated on a case-by-case basis.)
3. Submission of application and application review - Following receipt of all required materials and credentials (see Application for Admission), the Admissions Office will contact those qualified applicants selected to interview with the Admissions Committee.

The Admissions Committee will review applications, interview qualified candidates for admission, and render admission decisions.

For more information, contact the Admissions Office. The Subject Requirements/Prerequisite Coursework list indicates minimum requirements, but it should not be inferred that admission is probable or guaranteed for any applicant who meets them.

### Subject Requirements/Prerequisite Coursework

Coursework that is 7 years or older may need to be retaken.

Area	Sem. Credit	Qtr. Credit	Notes
Biology	12	18	Courses with lab, for science majors
Organic chemistry	3	4.5	Courses with lab for science majors
Biochemistry or Organic chemistry II	3	4.5	For science majors
Psychology	3	4.5	Behavioral, cognitive learning, and some social sciences courses will also be considered
English	6	9	English composition is required
Humanities	6	9	Includes philosophy, art, history, foreign language, religion, women's studies

# ND Program Information

## CLEP Examinations Accepted

Applicants for admission may substitute the College Level Examination Program (CLEP) exam(s) for select academic prerequisites listed below. Information regarding exams can be obtained from CLEP at (866)630-9305 or [www.clep.org](http://www.clep.org). To report examination scores to Sonoran University, use score report code #7563. An official score from the College Board/CLEP must be mailed directly to Sonoran University.

CLEP Examination	Credit Equivalent	Minimum Score
(ENG) Fresh. College Comp.	6 sem. or 9 qtr. credits	44
(PSY) Human Growth and Dev.	3 sem. or 9 qtr. credits	45
(PSY) Intro. to Edu. Psychology	3 sem. or 4.5 qtr. credits	47
(PSY) Intro. to Psychology	3 sem. or 4.5 qtr. credits	47

## ND Application for Admission

All applicants to the Doctor of Naturopathic Medicine program must apply online either directly through Sonoran University Application Portal or The Doctor of Naturopathic Medicine Centralized Application Service (NDCAS).

To apply, visit our application portal at:

[http://bit.ly/Sonoran\\_App](http://bit.ly/Sonoran_App)

Prospective students who wish to enter the ND program must complete the application materials and meet the following application requirements:

1. Application submitted through Sonoran University Application Portal, or through NDCAS (<https://ndcas.liasoncas.com/applicant-ux/#/login>)
2. Non-refundable application fee payable to either Sonoran University or NDCAS (see Tuition and Fees)
3. Three letters of recommendation
  - One academic reference
  - One regulated health care professional reference
  - One additional reference from either of the above categories or from an employer/volunteer supervisor
4. Essay
5. Resume or curriculum vitae
6. Official transcripts from all post-secondary institutions attended, including military training transcripts for U.S. veterans, traditional college coursework, and vocational training, showing completion of academic requirements

7. In-person interview (qualified applicants selected for an interview will be contacted by the Admissions Office)

## International Applicants

International applicants must also satisfy these additional application requirements:

1. International transcript evaluation received for all post-secondary course work completed in a foreign country. Transcripts must be translated and evaluated by a NACES or AICE member transcript evaluation service. Fees for this service are the responsibility of the applicant. The applicant must request a course-by-course and degree evaluation. The transcript evaluation service must mail the official report and transcripts utilized directly to the Sonoran University Admissions Office and be received before an evaluation of the applicant's file can begin. Additional coursework materials, such as catalogs, course descriptions, and syllabi, if requested, must be translated into English by a professional service.
2. Sonoran University reserves the right to require international applicants whose first language is not English to provide an official English Language Test report (IELTS or TOEFL preferred). Sonoran University requires a minimum score of 80 on the Internet-based test or IELTS Band 6.5.
3. International applicants admitted and deposited to enter the ND degree program must also apply for and obtain an F1 visa to begin and continue their studies in the United States (see F1 Student Visa information).

## Post-admit ND Enrollment Requirements

Students admitted to the ND program must satisfy the following enrollment requirements prior to matriculation.

1. Criminal background check - Sonoran University requires applicants who are offered admission to undergo a criminal background check. Sonoran University has contracted with Certiphi Screening, Inc., to facilitate the criminal background check. There is a fee for the service, payable directly to Certiphi. The applicant's offer of admission will not be considered final, nor will the applicant be permitted to enroll, until completion of a background check with results deemed acceptable by Sonoran University. Convictions of a criminal offense, other than a minor traffic offense, are required to be disclosed, including the nature of the offense and what disposition occurred as a result of that offense. This disclosure must be made whether or not a sentence was served and/or civil rights have been restored, or whether the conviction(s) were expunged from the record. A prior felony conviction



# ND Program Information

does not necessarily preclude an applicant from being admitted to Sonoran University, but professional licensing boards in the state of Arizona and elsewhere may refuse to issue a certificate to engage in clinical training or a clinical license if an individual has a felony or other conviction on their record.

2. Successful completion of Sonoran University's safety and training courses.
3. Transfer Credit Evaluation (if applicable)- Students admitted to the ND Program who have completed graduate or professional program level coursework or have graduated from an accredited professional school or program (i.e., ND, MD, DO, DC, DDS, etc.) may apply for transfer credit. To comply with VA requirements, all U.S. Veterans with any graduate-level coursework must be evaluated for potential transfer credit (see VA Benefits for more information). Transfer credit will be determined during the admissions process and will not be considered after matriculation (see Transfer Credit Policy).
4. Technology Requirements - Laptop and reliable high-speed internet for use in completing college coursework. For a complete listing of Sonoran University technical requirements, please visit: [techcheck.sonoran.edu](https://techcheck.sonoran.edu).

## Immunization and Vaccine Requirements

Sonoran University is committed to protecting the health and well-being of our students and patients. Because Sonoran and naturopathic medicine play an increased role in the delivery of integrative healthcare through multiple partnerships with hospitals, clinics and treatment centers, our ND students are required to provide proof of immunity or testing for various diseases.

Prior to enrolling at Sonoran University, all incoming ND students must provide sufficient documentation regarding immunity to Measles (Rubeola), Tuberculosis, Hepatitis B, Covid-19 and others. For a complete list of requirements and instructions please visit:

<https://www.sonoran.edu/student-life/student-consumer-information/>  
<https://www.sonoran.edu/student-life/student-consumer-information/>

## Technical Standards

A Sonoran University Doctor of Naturopathic Medicine student must possess aptitude, abilities, and skills in all five areas listed below and be able to meet them with or without accommodation. If at any time the student can no longer meet these technical standards or requires additional

accommodations, the Dean of Students must be notified immediately.

## Observation

Students must be able to observe demonstrations, conduct experiments, and tolerate normal odors associated with the basic sciences, including, but not limited to, anatomic dissections of preserved tissues and cadavers, microbiologic cultures, microscopic studies of microorganisms, and animal and human tissues in normal and pathologic states.

A student must be able to observe patients accurately at a reasonable distance and close at hand noting non-verbal as well as verbal signals. Specific observational requirements include, but are not limited to, the following abilities: detecting and identifying significant changes in colors of fluids, culture media, and dipstick tests; perceiving with acuity and accurately discriminating findings on x-rays and other imaging tests; efficiently reading written and illustrated material; observing intracellular details through a microscope; observing demonstrations in the classroom, including projected slides, films, videos, and overheads; observing and differentiating changes in body movement; observing anatomic structures; discriminating numbers and patterns associated with diagnostic instruments and tests, such as sphygmomanometers and electrocardiograms; and competently using instruments such as the otoscope, ophthalmoscope, microscope, and stethoscope.

## Communication

Students must be able to actively listen and relate effectively and sensitively to patients of all genders, ages, races, lifestyles, sexual orientations, and cultural backgrounds and be able to convey a sense of compassion and empathy.

Students must be able to observe and clearly communicate with patients in order to elicit information, accurately describe changes in mood, activity, and posture; and be able to perceive verbal as well as nonverbal communications. Communication includes speech as well as reading and writing. Medical education presents exceptional challenges in the volume and breadth of required reading and the necessity to impart information to others.

Students must be able to communicate quickly and effectively in oral and written English with all members of the health care team. Specific requirements include but are not limited to the following abilities: communicating rapidly and clearly with the medical team during a case report, eliciting a thorough history from patients, and communicating complex findings in appropriate terms to patients and to various members of the health care team.

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Students must learn to recognize and promptly respond to emotions such as sadness, worry, and agitation, as well as a lack of comprehension of physician communication.

Students must be able to read and record observations and plans, legibly, efficiently, and accurately in documents such as the patient record.

Students must be able to prepare and communicate concise and complete summaries of individual encounters. Students must be able to complete forms manually and on the computer keyboard, according to directions, in a complete and timely fashion.

## Sensory and motor function

Students must be able to perform a complete physical exam of patients with acuity, accuracy, facility, and compassion on patients of all genders utilizing palpation, auscultation, percussion, and other diagnostic maneuvers. In general, this requires sufficient ability to observe with acuity and process visual, auditory, exteroceptive (smell, touch, pain, and temperature), and proprioceptive (position, pressure, movement, stereognosis, and vibratory) phenomena accurately, as well as the ability to manipulate patients, medical instruments, and equipment with precision at a fine level of movement. Methods of surgical instruction include practice on living or preserved animal tissues.

A student should be able to provide general care and emergency treatment to patients in a timely manner. Examples of such emergency treatment reasonably required of physicians include responding quickly when called, initiating cardiopulmonary resuscitation, administering intravenous medication, applying pressure to stop bleeding, opening obstructed airways, suturing wounds, and performing other basic male and female exams and other physical maneuvers. Cardiopulmonary resuscitation may require moving an adult patient, repeatedly applying considerable chest pressure, delivering an adequate volume of artificial respiration, and calling for help.

A student should be able to learn to perform basic laboratory tests, e.g., urinalysis, completed blood count, and diagnostic and therapeutic procedures, e.g., phlebotomy, acupuncture, minor surgery, and arthrocentesis.

Students must be able to measure angles and diameters of various body structures using tape measure and goniometer, measure blood pressure and pulse, and interpret graphs describing biologic relationships.

Students must have strength, coordination, and ability to use the torso and limbs to position oneself and skillfully and successfully perform common naturopathic manual procedures and techniques.

## Intellectual, conceptual, integrative, and quantitative abilities

These abilities include measurement, calculation, reasoning, analysis, judgement, and syntheses. The student must also be able to recognize letters and numbers quickly and accurately. Clinical reasoning and problem solving, critical skills demanded of physicians, require all of these intellectual abilities and must be performed quickly, especially in emergency situations. Moreover, the effective physician often must deal with several tasks or problems simultaneously.

Students must be able to identify significant findings from history, physical examination, and laboratory data; provide a reasoned explanation for likely diagnoses; construct a reasoned and cost-effective diagnostic plan; and prescribe medications and therapy, recalling and retaining information in an efficient manner.

Students must be able to identify and communicate the limits of their knowledge to others when appropriate. The ability to incorporate new information from peers, teachers, and medical literature in formulating diagnoses and plans is essential. Good judgment in patient assessment and diagnostic and therapeutic planning is essential.

## Behavioral and social attributes

Empathy, integrity, honesty, concern for others, good interpersonal skills, interest, and motivation are all required personal qualities.

Students must be able to fully utilize their intellectual abilities, exercise good judgment, and promptly complete all responsibilities attendant to the diagnosis and care of patients in all clinical and academic settings. They must be able to develop mature, professional, and effective relationships with patients of all genders, ages, races, lifestyles, sexual orientations, and cultural backgrounds, as well as with their families, with other health care providers, and with all members of the learning and working community. At times this requires the ability to be aware of and appropriately react to one's own immediate emotional responses. For example, students must maintain a professional demeanor and be able to function at a high level in the face of personal fatigue, dissatisfied patients and their families, and tired colleagues.

Students must be able to develop professional relationships with patients and their families, providing comfort and reassurance when appropriate while protecting patient confidentiality.

Students must be able to maintain professional conduct when interacting with patients and the families of patients suffering from catastrophic illness, trauma, and death.

Students must possess adequate endurance to tolerate physically taxing workloads and to function effectively

under stress. At times, all students are required to work for extended periods, occasionally with rotating shifts.

Students must be able to adapt to change, to display flexibility, and learn to function with the uncertainties inherent in the clinical problems of many patients.

Students are expected to accept appropriate suggestions and criticism and, if necessary, respond by modifying their behavior.

## **F1 Student Visa/US Immigration and Customs Enforcement (SEVIS) Requirements**

Sonoran University's ND program is approved by the U.S. Immigration and Customs Enforcement (SEVIS) to enroll international students on an F1 Visa. Sonoran University's International Student Services are handled by the Vice President of Student Affairs and Dean of Students' offices. International student resources can be found on MySonoran. International applicants must submit a Financial Guarantee Form and provide proof of sufficient financial resources to the Admissions Office to cover anticipated costs of study. The Admissions Office will issue a Form I-20 to be used by the applicant to obtain a student visa only after admission to qualifying Sonoran University programs and confirmed receipt of the admissions deposit. This request must be received no less than 60 days prior to planned matriculation. Anticipated costs of study include travel, tuition, school fees, books, other study expenses, and all living expenses for the student (and dependents, if applicable) for the first year of study.

All payments to Sonoran University must be made in U.S. dollars. International students must maintain full-time enrollment at all times unless otherwise following the articulated program of study. All exceptions require approval from the Dean of Students. Prospective students with questions should contact the Admissions Office at [admissions@sonoran.edu](mailto:admissions@sonoran.edu).

# ND Program Information

## ND Program Partnerships

Sonoran University is proud to partner with the University of Arizona Mel and Enid Zuckerman College of Public Health (MEZCOPH) at University of Arizona and the Phoenix Institute of Herbal Medicine and Acupuncture (PIHMA). Through these partnership agreements, students may be dually enrolled at Sonoran University and either institution for additional degree completion.

## Mel and Enid Zuckerman College of Public Health ND/MPH

Sonoran University students must apply directly to the Mel and Enid Zuckerman College of Public Health (MEZCOPH) through SOPHAS (<http://www.sophas.org/>), the public health programs' centralized application. Please note that there are additional requirements beyond what was required to apply to Sonoran University including:

- GRE or MCAT
- College algebra, statistics, or a more advanced math course, such as calculus
- 3 additional letters of recommendation

For all admissions requirements, visit:

<https://publichealth.arizona.edu/graduate-students/admissions/programs>

When applying through SOPHAS, please indicate your interest in dual degree status in the *One Concise Statement* under the "Additional Questions" section. *For example, "ND/MPH: I am interested in family medicine and chronic disease, with an emphasis on cancer and cardiovascular disease."*

You can learn more about the MPH Program and admissions requirements by visiting this website for more information:

<https://publichealth.arizona.edu/academics/mph>

Sonoran University students enrolled in approved coursework at the Mel and Enid Zuckerman College of Public Health (MEZCOPH) must sign an acknowledgement form in the Registrar's Office. After coursework is completed at MEZCOPH, an official transcript must be received from MEZCOPH in order for those courses to be transferred. It is the student's responsibility to inform the Registrar's Office if the student withdraws from courses at MEZCOPH in order to make necessary changes in the student's schedule.

## Phoenix Institute of Herbal Medicine and Acupuncture

The Phoenix Institute of Herbal Medicine and Acupuncture (PIHMA) offers a Master of Science in Acupuncture and a Master of Science in Oriental Medicine. Both degree programs provide future clinicians with the unique skills of a comprehensively trained practitioner in Oriental medicine. Students must apply directly to PIHMA.

For admission requirements, visit:

<https://www.pihma.edu/degree-programs/>

Sonoran University students enrolled in approved coursework at PIHMA must sign an acknowledgement form in order to drop the equivalent courses from the Sonoran University track program. After coursework is completed at PIHMA, an official transcript must be received from PIHMA in order for those courses to be transferred. It is the student's responsibility to inform their Academic Advisor if the student withdraws from courses at PIHMA in order to make necessary changes via the Registrar's Office in the student's schedule. Failure to successfully complete PIHMA courses as scheduled may delay clinic entry and/or graduation. Graduation from Sonoran University is contingent upon completing all equivalent courses at PIHMA with a grade of C or better.

# ND Program Information

## ND Learning Support

### Basic Sciences Skill Development

The Basic Sciences Skill Development (BSSD) courses (Sonoran University 5014 and Sonoran University 5024) include small-group remediation with integration of content from all basic science subject areas. Content specific to the attending students will be integrated throughout the quarter and will include collaboration with didactic faculty, DDC tutors, and the Learning Specialist. Students who do not pass one or more Anatomy, Biochemistry, or Physiology courses will be required to complete the corresponding BSSD course. Attendance of all weeks is mandatory and will be recorded.

### Directed Skill Development Laboratory

The Directed Skill Development Laboratory (DSDL) supports and advances the safe and effective clinical skills development of Sonoran University students through directed laboratory learning experiences. The DSDL supports the development of the professional standards necessary for students to become competent and effective naturopathic physicians. The DSDL laboratories are usually conducted at times outside of normally scheduled classroom and laboratory periods.

Students are only allowed to participate in active skill development in the modalities for which they have successfully passed the specific course(s) and laboratory(ies) related to each specific modality. Modalities to be covered include osseous manipulation, acupuncture needling, infusion, injection, and phlebotomy. Students are expected to sign into and out of the DSDL and to complete appropriate liability waiver forms. All Sonoran University students are encouraged, as they become eligible, to take advantage of the DSDL.

### Clinical Skills Development Lab

The Clinical Skills Development Lab (CSDL) is offered to students to support and advance clinical skills development in conjunction with physical diagnosis, clinical assessment, and clinical sciences courses. Prior to entering the clinic, students have the opportunity to develop and practice their clinical skills in the CSDL by using simulation models that represent numerous body systems to include pulmonary, cardiac, genitourinary, gynecology, and pediatrics. The lab offers an opportunity for faculty to refer students for remediation or additional practice in developing specific clinical skills. The CSDL is conducted outside normally scheduled classroom hours.

### Clinical Skills Development Session

The Clinical Skills Development Session (CSDS) course (Sonoran University 4000) is designed to develop clinical students in the areas of case-taking, case analysis, charting, differential diagnosis, diagnostic work-up, treatment plan, and patient interaction. The CSDS also provides students the ability to prepare for the clinical milestone exams, an opportunity for clinical faculty to refer students for remediation, or Students may opt to self-enroll in CSDS and should contact the Clinical Coordinator for more information.

### Learning Skills Development Session

The Learning Skills Development Session (LSDS) is offered to students to support and enhance academic performance and professional development while at Sonoran University. Students work with a Learning Specialist to identify individual areas of needed support and participate in individual or group sessions to learn, practice, and integrate new strategies into their learning process. Although individual needs are identified, common areas addressed are time management, test anxiety, test performance, study skills, study/NPLEX planning, and professionalism. LSDS is open to all students by appointment or walk-in. However, students may be referred by faculty, staff, or administration when a need is identified, including failure of course exam(s).



# ND Academic Policies

## ND Academic Policies

### Clinical Education Experience

Clinical experience begins in the first year and continues throughout the program. Experiences include introduction to clinical practice, clinical practice skills lab, field observation, laboratory posts, medicinary posts, specialty clinics, clinical milestone exams, and clinical clerkships. As students progress through the program, they gain greater clinical knowledge and more advanced clinical skills. Students begin their clinical experience in an observational role and then work with standardized patients during clinical practice skills labs and in the clinical milestone exams. As they progress through their clinical training and demonstrate competence, they assume a more active role in patient care under the direct supervision of a licensed physician.

Students complete a total of 1,232 contact hours (112 credits) in clinical training, which exceeds the standards set by the CNME. In Sonoran University's clinical experience curriculum, no more than 4 credits may be field observation; and of the 108 credits of direct patient care, no more than 20 credits may be completed at elective off-sites. Supervising physicians must hold an active license in the United States or Canada. For a description of the various clinical clerkships and posts, please contact the Off-site Clinical Experience Coordinator. All students are expected to follow current clinical policies and procedures as outlined in the Sonoran University Clinical Handbook. This includes maintaining a current clinical training certificate from the Arizona Naturopathic Physicians Board, current CPR certification, current TB screening, current Hepatitis B information, fingerprint clearance card, and any other health-related information (see the Sonoran University Clinical Handbook and ND Graduation Requirements).

### Clinical Graduation Requirements

In order to complete clinical training and meet graduation requirements for the Doctor of Naturopathic Medicine program of study, a student must:

- Complete 108 credits of clinical clerkships, 4 credits of field observation, 1 credit of lab post, and 1 credit of medicinary/IV post, for a total of 114 credits.
- Have at least 500 patient contacts (at least 225 in a primary capacity).
- Complete the student clinical competencies.
- Complete and pass the Clinical Milestone Exams

### Clinical Examinations

Student must complete all Clinical Examinations (including the Clinical Practical Exam, Clinic Entry Exam, Objective Structured Clinical Examination, and CLPR Practical Exams) on the dates determined by the Division Director of Clinical Education. These are non-negotiable dates and times. Students who are unable to sit for the exam at the regularly schedule time will sit for the exam at the next offering (see Clinical Exam Calendar for dates and additional information).

### Eligibility for Clinical Clerkships

In order to be eligible to participate in the Doctor of Naturopathic Medicine clinical training program at Sonoran University, students must:

1. Complete 2<sup>nd</sup> year of academic program (3<sup>rd</sup> year for 5-year track).
2. Pass the Clinic Entry Exam.
3. Take NPLEX I and comply with existing NPLEX policy.
4. Maintain a current clinical training certificate (CTC) from the Arizona Naturopathic Physicians Medical Board.
  - It is important to note that the CTC must be renewed annually for the duration of a student's clinical training. Students who fail to renew their CTC are ineligible to continue their clinical training until such time that the CTC has been renewed.
5. Provide a current copy of a CPR card, Hepatitis B information, TB screening, MMR information, fingerprint clearance card, and any other required health information.
6. Pass a mandatory drug test.

All Doctor of Naturopathic Medicine (ND) students, including transfer students, must meet these requirements. Previous enrollment in a clinical training program at another naturopathic college or other medical college does not allow the student to enter Sonoran University's clinical training program without meeting all the above requirements. For additional details/requirements, please refer to the Clinical Handbook available on MySonoran.

### Eligibility for Elective Off-Sites

In order to be eligible to participate in the Doctor of Naturopathic Medicine Elective Off-Site Program at Sonoran University, students must:

1. Meet the eligibility requirements for Clinical Clerkships
2. Pass the Objective Structured Clinical Examination
3. Receive final approval from the Division Director of Clinical Education which may be based on clinical performance

# ND Academic Policies

## Eligibility for Field Observation

In order to be eligible to participate in field observation, students must:

1. Complete quarters 1-3 of the Doctor of Naturopathic Medicine program, including a passing score on the CLPR 5030 Clinical Practice Exam.
2. Apply for and receive a clinical training certificate (CTC) from the Arizona Naturopathic Physicians Medical Board.
  - It is important to note that the CTC must be renewed annually for the duration of a student's clinical training. Students who fail to renew their CTC are ineligible to continue their clinical training until such time that the CTC has been renewed.
3. Pass a mandatory drug test.
4. Complete CPR training.
5. Complete Hepatitis B information and TB screening.

## Enrollment

Students are required to adhere to the institutional enrollment policies as well as the enrollment policies and requirements specific to the ND Program. Full-time enrollment is defined as being enrolled for a minimum of 12 credits (didactic and/or clinical). Part-time enrollment is defined as being enrolled for a minimum of 6 credits but less than 12 credits. Sonoran University does not guarantee the length of the program to be less than four calendar years. Students may not exceed the predetermined number of clinical clerkships as outlined in the Clinical Handbook without the approval of the Academic Policy and Progress Committee (APPC). Students are not allowed to attend, nor will credit be awarded for, courses/lab sections or clerkships for which they are not registered.

## International Students

International students attending Sonoran University on an I-20 must maintain full-time enrollment at all times unless otherwise following the articulated program of study. All exceptions require approval from the Dean of Students. Please direct any questions regarding international student status to the Dean of Students' Office.

## Concurrent Enrollment for ND students

Sonoran University offers a pathway that allows current ND students to complete the requirements for the MS degree (MSCN or MSNBL) while they are completing the ND degree. This creates an opportunity for our ND students to graduate with the MS degree *and* ND degree upon completion of their ND program.

Students in Sonoran University's 4-year ND program of study (ND4) and 5-year (ND5) are eligible to apply through the Admissions Office as early as quarter 5 (ND4) and quarter 9 (ND5) for admission to the MSCN program and as early as quarter 6 (ND4) and quarter 11 (ND5) for admission to the MSNBL program. Students are eligible to enroll as early as quarter 9 (ND4) or quarter 13 (ND5) for the MSCN program and quarter 11 (ND4) and quarter 15 (ND5) for the MSNBL. Once an ND student is admitted to the MS degree program, the following pre-matriculation concurrent enrollment requirements must be met.

## Concurrent Enrollment Eligibility Requirements (CEER) for ND students

1. Official confirmation from the Dean of Students verifying good citizenship (i.e., no Code of Conduct violations).
2. Achieve a minimum cumulative GPA of 3.5 in the quarter immediately preceding concurrent enrollment.
3. Pass the Clinic Entry Exam Q7 (ND4) or Q11 (ND5).
4. Official documentation on file with the Registrar's Office confirming NPLEX Part I pass.
5. Full-time enrollment in the two quarters immediately preceding matriculation to demonstrate ability to handle academic course load.
6. Recommendation Letter from the Dean of the College of Naturopathic Medicine. The Dean's review/recommendation will take into consideration:
  - Input from Associate Dean of Clinical Education on clinical performance
  - Input from Academic Advising on the student's potential for success
7. Successful in-person or virtual interview with the Dean of the College of Naturopathic Medicine if deemed necessary.

ND students will be allowed to matriculate into the MS program for one quarter conditionally until confirmation of all CEER are met. Students who fail to meet CEER will not be allowed to register for their second quarter of the MS program and will be counseled to defer MS enrollment until a time when all requirements are met, or the student may be administratively withdrawn from the MS program. Any deviation in the start date for concurrent enrollment will impact graduation dates. Therefore, the student should not expect to earn both the ND and MS degrees at the same time.

Concurrently enrolled ND students must continue to meet all concurrent enrollment requirements outlined within the institutional policies section of the catalog and maintain satisfactory academic progress requirements in each program. Concurrently enrolled ND students are also required to pass all clinical rotation while in clinical training.

# ND Academic Policies

## Class Schedules

Current schedules and information for the Doctor of Naturopathic Medicine program are posted online on MySonoran and are also available at the Registrar's Office. Once a schedule is released, changes will be made only in the event of extreme circumstances.

## Intensive Courses

An intensive course is offered in a shortened time period. Intensives may be scheduled as a 5-day format or over a weekend, with classes beginning Friday evening and continuing Saturday and Sunday. Every effort is made to minimize the scheduling of required weekend intensives.

## Adding and Dropping Courses and Clinic Clerkships

### Academic Courses

Sonoran University programs of study are track programs. Students on the 4-year track seeking to move to the 5-year track must receive approval from the Academic Policy and Progress Committee (APPC). In addition to the Institutional requirements for adding and dropping courses, schedule changes requested after the start of a quarter must also adhere to the following:

- Intensive courses may be added up until the first day of class but may not be dropped after the course has begun (some exceptions may apply). Tuition paid for intensive courses will not be refunded after the course has begun.
- Selectives may be dropped only during the add/drop period unless otherwise noted. Selectives may only be added up through week one of a quarter and in week two with the permission of the instructor (some exceptions may apply).

### Clinical Clerkships

Clinical clerkships do not follow the same add/drop policy as didactic courses noted above; clinical students must refer to the Clinical Handbook regarding policy for adding and dropping clerkships (see Add/Drop Refund Policy).

An add/drop fee will be charged for any clerkship changes after the clinic add/drop period has ended (see Tuition and Fees). Students are not able to drop clerkships after the clinical add/drop period without approval from the APPC. Students awaiting decisions are required to attend assigned clerkships and meet current clinic policies until otherwise notified in writing.

## NPLEX Board Examinations

The licensing of naturopathic physicians to practice medicine is a function of an individual state or province. The states and provinces that license naturopathic physicians recognize the North American Board of Naturopathic Examiners (NABNE), which certifies candidates as eligible to register for the licensing exam that is administered as the Naturopathic Physicians Licensure Examination (NPLEX). It is the student's responsibility to be familiar with NABNE and NPLEX policies and procedures.

Sonoran University considers the NPLEX Parts I and II to be significant measures of professional achievement toward becoming a naturopathic physician. Student performance on the NPLEX provides the faculty and administration an external measure of the level of understanding students have in a broad number of subject areas. This performance offers Sonoran University important information on curricular content and teaching methodologies. Student scores also provide Sonoran University and the patients they see with a level of assurance that they can perform with basic competency as student physicians. To qualify for the NPLEX Part I, students must have satisfactorily completed all basic science coursework, including GNMD 6044, be currently enrolled or on an approved leave of absence, and be certified by the Registrar's Office as eligible to sit for the exam.

### NPLEX Part I

Students are required to take NPLEX Part I to be eligible to participate in the Doctor of Naturopathic Medicine clinical training program. Students must take the NPLEX Part I at the first offering of the exam immediately following their 8<sup>th</sup> quarter in the 4-year Program of Study (POS) and 12<sup>th</sup> quarter in the 5-year POS or completion of the basic science courses, including GNMD 6044, whichever comes first. Students who do not pass NPLEX Part I must take it again at the next offering. Students who do not take NPLEX I at the next offering will be dropped from the following quarter's clinical clerkships and may not be allowed to continue in clinical clerkships until they have taken NPLEX I. In order to register for future clinical clerkships, all students must submit the original examination results from NABNE to the Registrar's Office each time it is taken.

Appeals to any part of this process follow the normal Sonoran University complaint procedures. This policy applies to all ND students, including professional transfer students.

# ND Academic Policies

## NPLEX Part II

Passing NPLEX Part II examination is not a graduation requirement of Sonoran University, but it is required to become licensed. Students should be aware that NABNE may modify its policies and procedures at any time. It is the student's responsibility to be aware of NABNE/NPLEX policies and procedures.

## Satisfactory Academic Progress - Completion

The ND program is designed to be completed in four calendar years or 15 academic quarters (five calendar years or 19 academic quarters for the 5-year track). Students who deviate from the standard academic program will extend the length of the program. Satisfactory academic progress in the ND program is defined as passing all program requirements within the maximum timeframe of one and one-half (1.5) times the length of the longest published program in which they are enrolled, from initial date of matriculation and including any and all leaves of absence and periods of withdrawal followed by re-activation. Generally, this is between 6–7.5 years. Credits transferred from an approved institution count toward the minimum academic requirements to be completed at the end of each academic year (see Minimum Academic Requirements) and count toward the maximum completion time for financial aid. Students must make satisfactory progress toward the completion of their degree at Sonoran University to be eligible for most financial aid programs. Students must earn a minimum number of credits per quarter (see Minimum Academic Requirements). The Satisfactory Academic Progress Policy for the ND program includes a cumulative GPA of 2.0 or higher, minimum academic credits earned per term, and maximum timeframe for completion.

Students who fail to make satisfactory academic progress for their prescribed program of study in any term will be given an academic warning and will be placed on academic probation.

## Cumulative GPA Requirement

Students in the ND program must maintain a cumulative GPA of at least 2.0.

## Minimum Academic Requirements

The following table illustrates the minimum number of credit hours required to be completed (total credits earned) at the end of each academic year for the Doctor of Naturopathic Medicine program.

### 4-year track students

Academic Year	Total Credits Earned
1	65
2	130
3	195
4	260
5	325
6	390

### 5-year track students

Academic Year	Total Credits Earned
1	32
2	70
3	126
4	182
5	238
6	294
7	350
7.5	390

## Graduation

### ND Graduation Requirements

1. In addition to institutional graduation requirements, candidates for the Doctor of Naturopathic Medicine degree must fulfill the following: Satisfactory completion of clinical training requirements, including:
  - 108 clinical clerkship credits
  - 4 field observation credits
  - 1 lab post credit
  - 1 Medicinary/IV post credit
  - 500 patient contacts (at least 225 primary).
  - Satisfactory completion of required student clinical competencies.
  - Successful completion of all clinical milestone exams
  - Successful completion and documentation of 45 community service hours

# ND Academic Departments

## ND Academic Departments

### Division of Clinical Education

Division Director: Jaclyn Bain, ND

#### Department of Pre-Clinical Studies

Department Chair: Jaclyn Bain, ND

The Department of Pre-Clinical Studies focuses on the development, enhancement, and exercise of cognitive analytical and evaluative thinking in the clinical context. These skills are enhanced through hands-on practice in the lab setting. Students develop and practice clinical skills in preparation for the clinical milestone examinations.

### Division of Human Studies

Division Director: Yasmin Abusamra, PhD

#### Department of Basic Medical Sciences

Department Chair: Yasmin Abusamra, PhD

The Department of Basic Medical Sciences focuses on principles and concepts relative to the structure and functions of the human body. Didactic courses and labs integrate anatomy, embryology, biochemistry, immunology, microbiology, physiology, pathology, and pharmacology. Emphasis is placed upon studying both the human systems used to maintain health, and the transitional pathophysiologic processes that contribute to maintaining life.

#### Department of General Medicine

Department Chair: Pamela Howell, MD

The Department of General Medicine emphasizes the integration of knowledge with the practical application of primary naturopathic medicine. Didactic courses are designed and organized by body systems and integrate biomedical sciences with clinical applicability.

#### Department of Research

Department Chair: Jeffrey Langland, PhD

The Department of Research provides coursework that addresses the fundamentals of advanced scientific method in medicine and the practices and policies of the generic research community. Students learn scientific literature review and evaluation of reliability of published data. Students with a strong interest in the conduct of research may, with the approval and supervision of a faculty member, enroll in research selectives and, taking advantage of

available resources, conduct a research project which may lead to publication. Members of the research department are actively involved in research and maintain relationships with other area institutions such as the Bio-Design Institute at ASU, T-GEN North, and the University of Arizona.

Research at Sonoran University is guided by two internal institutional groups: The Research Advisory Board (RAB) is responsible for the review of research protocols, taking into account scientific merit, ethical considerations, program relevance, and public responsibility; and the Institutional Review Board (IRB) assures compliance with medical ethics and human subjects' research protection. The IRB will not accept protocols without prior RAB review and approval.

### Division of Therapeutics

Division Director: Katrina Stage, ND, RH (AHG)

#### Department of Acupuncture and Chinese Medicine

Department Chair: Yong Deng, MD (China), LAc

The Department of Acupuncture and Chinese Medicine prepares students to practice safely and competently while proving basic competency in Traditional Chinese Medicine. The curriculum includes didactic courses and labs in fundamental concepts of Chinese Medicine, diagnosis, meridians and points, pathology, acupuncture techniques, and case analysis and management.

#### Department of Botanical Medicine

Department Chair: Patricia Gaines, ND, RH (AHG)

The Department of Botanical Medicine provides training in the medicinal and clinical application of plants. The curriculum recognizes historical and traditional use as well as modern research. Courses are offered in several venues including field study, lecture, and medicine-making laboratory. Instruction focuses on clinical use, pharmacognosy, specific indication, dosage, formulation, and safety considerations. Materia medica classes are organized based on organ systems and reinforced through case studies. Emphasis is placed on understanding the unique properties of each herb and how to best apply botanical medicine to a variety of patient populations. Use of botanical medicine is discussed for the treatment of acute and chronic illness as well as prevention and wellness.



# ND Academic Departments

## Department of Homeopathy and Pharmacology

Department Chair: Elizabeth Rice, ND

The Department of Homeopathy and Pharmacology prepares students to be competent in case-taking, prescription, and patient management with emphasis on the recognition of the body's process of healing. Students study the historical, current, and evolving use of homeopathic medicines in naturopathic practice.

## Department of Mind-Body, Environmental Medicine, and Naturopathic Philosophy

Interim Department Chair: M. Dawn Jonas, NMD

The Department of Mind-Body emphasizes the intuitive, communicative, and therapeutic skills needed to be an effective practitioner. Focus is placed on the body, mind, and spirit interactions found within the patient's health needs and in the doctor/patient relationship. The Department of Environmental Medicine focuses on environmental toxins that adversely affect health, such as solvents, pesticides, heavy metals, plastic, and other pollutants. Labs provide opportunities to practice techniques that elicit detoxification in reducing toxicity and improving overall health. The Department of Naturopathic Philosophy introduces the basic philosophy, principles, concepts, and historical figures within the naturopathic profession and are designed to encourage the students to explore and discover their personal relationship to the philosophy, principles, and concepts within naturopathic medicine.

## Department of Nutrition

Department Chair: Vacant

The Department of Nutrition emphasizes the body's metabolic pathways for macronutrients and micronutrients, individualized nutrient requirements, and therapeutic dietary protocols with an emphasis on whole foods. Based on the recognition that diet is a critical foundation for health, students learn to analyze patient diets and to use specialty testing to make appropriate recommendations. Students will have the opportunity to practice nutritional counseling and to utilize the teaching kitchen to integrate their knowledge. Critical analyses of the current evidence for nutritional and supplemental interventions are considered.

## Department of Physical Medicine

Interim Department Chair: Calvin Kwan, NMD

The Department of Physical Medicine focuses on orthopedic physical assessment techniques and treatment modalities including therapeutic touch, palpation, a variety of soft-tissue and osseous manipulation techniques, and hydrotherapy. Patient case management for functional improvement in injury states, postural stress conditions, pain management, and structural integration are emphasized.

# ND Academic Coursework

## ND Academic Coursework

The Doctor of Naturopathic Medicine Program at Sonoran University is a cohort-based program that follows a prescribed track. All academic credit is computed in quarter hours (see Credit Equivalence). All students are guided by the curriculum as outlined in their prescribed program of study. Students are pre-registered for core courses, including labs and clinical clerkships. Students may not deviate from their prescribed program of study. Sonoran University reserves the right to make curriculum changes that are applicable to all students, if necessary.

Students are admitted to either a 4- or 5-year track program. The 4-year track offers students a traditional path to graduation. The 5-year track offers support for students who may want more time to complete the basic and pre-clinical sciences by distributing the first year of basic sciences and pre-clinical medicine courses across two years. The remaining 3 years of both the 4- and 5-year tracks of the ND curriculum are the same. Students who are not making satisfactory academic progress on the 4-year track may be transitioned into the 5-year track. Students cannot move to the 5-year track after completion of year 1 of the 4-year track. In addition, students cannot move back to the 4-year track after starting the 5-year track without approval from the Academic Policy and Progress Committee (APPC).

If a student stays on track with the program, taking all courses as they are offered in sequence, students can expect to graduate within 15 consecutive quarters, or four calendar years, if on the 4-year track (or 19 consecutive quarters, or five calendar years, if on the 5-year track). After matriculation, approval by APPC is required for track changes. For a detailed list of required courses, see the Doctor of Naturopathic Medicine Program of Study.

### First Calendar Year

*(First Two Calendar Years in the Five-Year Track)*

The first calendar year begins with the basic medical science curriculum in the study of biochemistry and normal structures and functions of the body, including anatomy and physiology. This material is organized by systems. Courses in research and the naturopathic modalities, history, and philosophy are introduced; and early clinical experiences begin with an introduction to clinical practice. These experiences include opportunities to work with standardized patients in clinical settings and shadow physicians in private practice during field observation (see Five-Year Track Program of Study for outline of courses).

### Second Calendar Year

*(Third Calendar Year in the Five-Year Track)*

The second calendar year continues the basic medical science curriculum and focuses on the body's pathological transitions through disease, along with clinical recognition of these processes using physical, clinical, and lab diagnosis. Courses in the naturopathic modalities such as nutrition, mind-body medicine, homeopathy, and acupuncture and Chinese medicine are explored during the second year.

### Third and Fourth Calendar Years

*(Fourth and Fifth Calendar Years in the Five-Year Track)*

In the final two calendar years, clinical methods of naturopathic medicine are presented and expanded in both the classroom and the clinical setting. Students have the opportunity to work with various patient populations at the Sonoran University Medical Center, Neil Riordan Center for Regenerative Medicine, and affiliated sites. In the final academic year of the program, students concentrate on clinical training and take fewer didactic credits.

### Selectives

Sonoran University offers selectives, or required electives, in the naturopathic medical degree program as part of the core curriculum. Selectives are advertised prior to registration, and an enrollment of ten students is required before most selectives will be offered (see Adding and Dropping Courses for prescribed program of study). Students will register for selectives online during the published registration timeframe. For a list of potential selectives, please see ND Selective Course Descriptions.

### Academic Coursework

The Doctor of Naturopathic Medicine program has been developed to ensure that students have the opportunity to build a strong foundation and to demonstrate competency in each major naturopathic modality, including acupuncture and Chinese medicine, botanical medicine, homeopathy, mind-body medicine, physical medicine, environmental medicine, pharmacology, and nutrition. Laboratory courses include dissection of cadavers, physical exams, palpation, manipulation, acupuncture, hydrotherapy, microbiology, histology, preparation of herbal medicines, and the use of

# ND Academic Coursework

simulation models. Didactic courses include traditional and adult learning classroom teaching methods, group projects, and experiential coursework.

## ND Program Learning Outcomes

Students are expected to demonstrate the following knowledge, skills, and attitudes upon completion of the Doctor of Naturopathic Medicine program:

1. A commitment to the principles of naturopathic medicine
2. Knowledge of basic medical sciences
3. Clinical knowledge, skills, and attitudes in the care and treatment of patients:
  - Diagnose health conditions based upon the collection, analysis, and interpretation of patient data
  - Develop treatment plans and management strategies for health conditions utilizing the therapeutic modalities
  - Devise strategies for disease prevention and wellness for self and for patients
4. A commitment to ethics and professionalism:
  - Demonstrate the ability to achieve professional success
  - Demonstrate professional honesty and integrity
5. Skills for scholarship and lifelong learning

## Course Format / Requirements

The Doctor of Naturopathic medicine program consists of 246.5 didactic credits (2,831.5 didactic contact hours) and 43.5 clinical credits (1,578.5 clinical contact hours). The format of the program is primarily on campus.

Full-time enrollment is defined as being enrolled for a minimum of 12 credits. Part-time enrollment is defined as being enrolled for a minimum of 6 credits but less than 12 credits.

## Credit Equivalence

Courses are reported in quarter credit hours according to the following values:

Didactic	1 credit = 11 contact hours per quarter
Laboratory	1 credit = 11 contact hours per quarter
Clinical Clerkships	1 credit = 11 contact hours per quarter

## Honors Tracks

The Honors Tracks are the first of its kind in the field of Naturopathic Medical Education. These competitive year-long focused areas of clinical study increase students' knowledge, skills, confidence, and post-graduate opportunities. All Honors Tracks have core learning components and additional selective scholarship and experiential components. Each Honors Track has its own specific proficiencies and patient contact requirements. In addition, all Honors Track students take a year-long advanced topic selective in their area of study where they learn to critically appraise evidence-based medical research under the guidance of faculty mentors. Successful completion of an Honors Track is recognized with a certificate, notation on the student's transcript, and at graduation.

# ND 4 Year Program of Study

## Clinical Exam Calendar

### Fall Quarter

**October 3, 2022 - December 16, 2022**

November 12	Immersion Day (CLTR 4304)
November 12	Male Exam (CLPR 6040)
November 19	Male Exam (CLPR 6040)
November 19	Clinic Entry Exam (CLTR 4304)
December 3	Clinical Practice Exam (CLPR 5030)
December 3	OSCE C (CLTR 4508C)
December 10	OSCE C (CLTR 4508C)
December 20	Make Up Exam Day

### Spring Quarter

**April 3, 2023 - June 16, 2023**

May 13	Immersion Day (CLTR 4304)
May 13	Male Exam (CLTR 6040)
May 20	Male Exam (CLTR 6040)
May 20	Clinic Entry Exam (CLTR 4304)
June 3	Clinical Practice Exam (CLPR 5030)
June 3	OSCE C (CLTR 4508C)
June 10	OSCE C (CLTR 4508C)
June 20	Make Up Exam Day

### Winter Quarter

**January 2, 2023 - March 17, 2023**

January 7	OSCE A (CLTR 4508A)
January 21	OSCE A (CLTR 4508A)
February 18	Female Exam (CLPR 6050)
February 25	Female Exam (CLPR 6050)
March 4	OSCE B (CLTR 4508B)
March 11	OSCE B (CLTR 4508B)
March 21	Make Up Exam Day

### Summer Quarter

**July 3, 2023 - September 15, 2023**

July 8	OSCE A (CLTR 4508A)
July 15	OSCE A (CLTR 4508A)
July 22	OSCE A (CLTR 4508A)
July 29	OSCE A (CLTR 4508A)
August 19	Female Exam (CLPR 6050)
August 26	Female Exam (CLPR 6050)
August 26	OSCE B (CLTR 4508B)
September 9	OSCE B (CLTR 4508B)
September 19	Make Up Exam Day

Please note that multiple dates are listed for some exams. If you are a student taking one of these exams, it is your responsibility to ensure you do not have any scheduling conflicts on the days listed. Some exams require multiple days, and some exams may only require one day of your time. This information will be communicated at the start of each course, but it is imperative to leave days open as these exams cannot be excused or re-scheduled.

Exams for OSCE A and B occur in the quarter following completion of the course (i.e., a student registered in CLTR 4508 for Fall should refer to the Winter Exam schedule).

OSCE C occurs concurrently with the second attempt of the course, should student not pass OSCE A or B.  
*Dates subject to change.*

# ND 4 Year Program of Study

## ND Four Year Program of Study

### 4 Year Program of Study - Year One

Quarter 1		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
ANAT 5014	Regional Anatomy, Embryology and Histology I			55.0	55.0	5.0
ANA 5014L	Regional Anatomy, Embryology and Histology I Lab		33.0		33.0	3.0
PHYS 5014	Human Physiology and Endocrinology I			44.0	44.0	4.0
PHYS 5014L	Human Physiology and Endocrinology I Lab		11.0		11.0	1.0
ICSA 5014	Integrated Case Studies Application I			11.0	11.0	1.0
BIOC 5014	Biochemistry I			44.0	44.0	4.0
RSCH 5016	Research I			11.0	11.0	1.0
CLPR 5010	Intro to Clinical Practice I <sup>1</sup>	22.0			22.0	2.0
CLPR 5010L	Intro to Clinical Practice Skills Lab I <sup>1</sup>	22.0			22.0	2.0
NTMD 5010	Philosophical and Historical Foundations of Naturopathic Medicine I			22.0	22.0	2.0
Year 1 Quarter 1 Totals		44.0	44.0	187.0	275.0	25.0

Quarter 2		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
ANAT 5024	Regional Anatomy, Embryology and Histology II			33.0	33.0	3.0
ANAT 5024L	Regional Anatomy, Embryology and Histology II Lab		33.0		33.0	3.0
PHYS 5024	Human Physiology and Endocrinology II			44.0	44.0	4.0
PHYS 5024L	Human Physiology and Endocrinology II Lab		11.0		11.0	1.0
ICSA 5024	Integrated Case Studies Application II			11.0	11.0	1.0
BIOC 5026	Biochemistry II			44.0	44.0	4.0
IMMU 5024	Immunology			33.0	33.0	3.0
RSCH 5024	Research II			11.0	11.0	1.0
CLPR 5020	Intro to Clinical Practice II <sup>1</sup>	22.0			22.0	2.0
CLPR 5020L	Intro to Clinical Practice Skills Lab II <sup>1</sup>	22.0			22.0	2.0
NTMD 5020	Philosophical and Historical Foundations of Naturopathic Medicine II			22.0	22.0	2.0
Year 1 Quarter 2 Totals		44.0	44.0	198.0	286.0	26.0



# ND 4 Year Program of Study

## 4 Year Program of Study - Year One *(Continued)*

Quarter 3		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
ANAT 5034	Regional Anatomy, Embryology and Histology III			33.0	33.0	3.0
ANAT 5034L	Regional Anatomy, Embryology and Histology III Lab		33.0		33.0	3.0
PHYS 5034	Human Physiology and Endocrinology III			44.0	44.0	4.0
PHYS 5034L	Human Physiology and Endocrinology III Lab		11.0		11.0	1.0
ICSA 5034	Integrated Case Studies Application III			11.0	11.0	1.0
MGEN 5038	Medical Genetics			33.0	33.0	3.0
MICR 5026	Microbiology I			33.0	33.0	3.0
MICR 5026L	Microbiology I Lab		22.0		22.0	2.0
CLPR 5030	Intro to Clinical Practice III <sup>1</sup>	22.0			22.0	2.0
CLPR 5030L	Intro to Clinical Practice Skills Lab III <sup>1</sup>	22.0			22.0	2.0
NTMD 5030	Philosophical and Historical Foundations of Naturopathic Medicine III			22.0	22.0	2.0
Year 1 Quarter 3 Totals		44.0	66.0	176.0	286.0	26.0

Quarter 4		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
CAPS 5018	Basic Sciences Capstone/NPLEX I Review (weeks 1-4)			33.0	33.0	3.0
GNMD 6014	General Medical Diagnosis I (weeks 5-11)			77.0	77.0	7.0
ANAT 5048	Neuroanatomy			22.0	22.0	2.0
ENVM 6010	Environmental Medicine			27.5	27.5	2.5
MICR 5034	Microbiology II			44.0	44.0	4.0
PSYC 6010	Mind Body Medicine: Fundamentals of Mind-Body Medicine			22.0	22.0	2.0
ACMD 6010	Acupuncture and Chinese Medicine I: Theory & Fundamentals of Acupuncture and Chinese Medicine			27.5	27.5	2.5
PHMD 6010	Physical Medicine I: Intro to Physical Medicine and Orthopedics			11.0	11.0	1.0
PHMD 6010L	Physical Medicine I: Intro to Physical Medicine and Orthopedics Lab		11.0		11.0	1.0
See additional courses and credits required for degree completion						
Year 2 Quarter 4 Totals		0.0	11.0	264.0	275.0	25.0
Grand Totals - Year 1		132	165	825	1,122	102

# ND 4 Year Program of Study

## 4 Year Program of Study - Year Two

Quarter 5		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
CLPR 6040	Clinical Practice I <sup>1</sup>	22.0			22.0	2.0
CLPR 6040L	Clinical Practice Skills Lab I <sup>1</sup>	22.0			22.0	2.0
GNMD 6024	General Medical Diagnosis II			99.0	99.0	9.0
BOTM 6010	Botanical Medicine I: Intro to Botanical Medicine			22.0	22.0	2.0
NUTR 6014	Nutrition I			22.0	22.0	2.0
ACMD 6020	Acupuncture & Chinese Medicine II: TCM Diagnosis			27.5	27.5	2.5
PHAR 6010	Pharmacology and Pharmacotherapeutics I			33.0	33.0	3.0
PHMD 6020	Physical Medicine II: Naturopathic Manipulative Treatment Assessment & App I			22.0	22.0	2.0
PHMD 6020L	Physical Medicine II: Naturopathic Manipulative Treatment Assessment & App I Lab		22.0		22.0	2.0
See additional courses and credits required for degree completion						
Year 2 Quarter 5 Totals		44.0	22.0	225.5	291.5	26.5

Quarter 6		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
CLPR 6050	Clinical Practice II <sup>1</sup>	22.0			22.0	2.0
CLPR 6050L	Clinical Practice Skills Lab II <sup>1</sup>	22.0			22.0	2.0
GNMD 6034	General Medical Diagnosis III			99.0	99.0	9.0
BOTM 6020L	Botanical Medicine II: Pharmacy of Botanical Medicine Lab (fall entry students may take in Q7)		22.0		22.0	2.0
NUTR 6024	Nutrition II			27.5	27.5	2.5
ACMD 6030	Acupuncture and Chinese Medicine III: Meridians & Points I			22.0	22.0	2.0
ACMD 6030L	Acupuncture and Chinese Medicine III: Meridians & Points I Lab		11.0		11.0	1.0
PHAR 6020	Pharmacology and Pharmacotherapeutics II			33.0	33.0	3.0
PHMD 6030	Physical Medicine III: Naturopathic Manipulative Treatment Assessment & Application II			22.0	22.0	2.0
PHMD 6030L	Physical Med III: Nat Manipulative Treatment Assessment & Application II Lab		22.0		22.0	2.0
See additional courses and credits required for degree completion						
Year 2 Quarter 6 Totals		44.0	55.0	203.5	302.5	27.5

# ND 4 Year Program of Study

## 4 Year Program of Study - Year Two *(Continued)*

Quarter 7		Contact Hours			Total Contact Hours	Total Credit Hours
		Clinic	Lab	Didactic		
Course #	Course Title					
CLPR 6060	Clinical Practice III <sup>1</sup>	22.0			22.0	2.0
CLPR 6060L	Clinical Practice Skills Lab III <sup>1</sup>	22.0			22.0	2.0
GNMD 6044	General Medical Diagnosis IV			88.0	88.0	8.0
HMEO 6010	Homeopathy I			22.0	22.0	2.0
ACMD 6040	Acupuncture and Chinese Medicine IV: Meridians & Points II			16.5	16.5	1.5
ACMD 6040L	Acupuncture and Chinese Medicine IV: Meridians & Points II Lab		11.0		11.0	1.0
PHAR 6030	Pharmacology and Pharmacotherapeutics III			33.0	33.0	3.0
PHMD 6054	Physical Med V: Principles of Hydrotherapy			11.0	11.0	1.0
PHMD 6054L	Physical Medicine V: Principles of Hydrotherapy Lab		22.0		22.0	2.0
CLTR 4304	Clinic Entry Skills Assessment <sup>1</sup>	16.5			16.5	1.5
See additional courses and credits required for degree completion						
Year 2 Quarter 7 Totals		60.5	33.0	170.5	264.0	24.0

Quarter 8		Contact Hours			Total Contact Hours	Total Credit Hours
		Clinic	Lab	Didactic		
Course #	Course Title					
CAPS 6024	NPLEX I Review (weeks 1-3)			60.0	60.0	0.0
MNGT 6010	Practice Management I: Operations			11.0	11.0	1.0
GNMP 6011	General Medical Practice: Dermatology (weeks 5-12)			11.0	11.0	1.0
GNMP 6014	General Medical Practice: EENT (weeks 5-12)			22.0	22.0	2.0
PSYC 6024	Mind Body Medicine: Intro to Medical Psychotherapy (weeks 5-12)			16.5	16.5	1.5
PHMD 6040	Physical Medicine IV: Physiotherapy Modalities (weeks 5-12)			11.0	11.0	1.0
PHMD 6040L	Physical Medicine IV: Physiotherapy Modalities Lab (weeks 5-12)		11.0		11.0	1.0
ACMD 7060	Acupuncture and Chinese Medicine VI: Acupuncture Techniques (weeks 5-12)			11.0	11.0	1.0
ACMD 7060L	Acupuncture and Chinese Medicine VI: Acupuncture Techniques Lab (weeks 5-12)		11.0		11.0	1.0
See additional courses and credits required for degree completion						
Year 2 Quarter 8 Totals		0.0	22.0	142.5	153.5	9.5
Grand Totals - Year 2		148.5	132	742	1,011.5	87.5

4 Year Program of Study - Year Three

# ND 4 Year Program of Study

Quarter 9		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
BOTM 7030	Botanical Medicine III: Naturopathic Materia Medica Pharmacognosy & Therapeutics I			22.0	22.0	2.0
GNMP 7020	General Medical Practice: Gastroenterology			27.5	27.5	2.5
GYNE 7010	Gynecology I			33.0	33.0	3.0
HMEO 7020	Homeopathy II			22.0	22.0	2.0
NUTR 7034	Nutrition III			27.5	27.5	2.5
ACMD 7057	Acupuncture and Chinese Medicine V: Traditional Chinese Medicine Pathology			44.0	44.0	4.0
CLTR 7000	Clinical Clerkships (2) <sup>2</sup>	88.0			88.0	8.0
See additional courses and credits required for degree completion						
Year 3 Quarter 9 Totals		88.0	0.0	176.0	264.0	24.0

Quarter 10		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
BOTM 7044	Botanical Medicine IV: Naturopathic Materia Medica Pharmacognosy & Therapeutics II			27.5	27.5	2.5
GNMP 7030	General Medical Practice: Endocrinology			27.5	27.5	2.5
GNMP 7031	General Medical Practice: Hematology			11.0	11.0	1.0
GYNE 7020L	Gynecology Lab (may be taken in Qtr. 10 or Qtr. 11)		22.0		22.0	2.0
HMEO 7030	Homeopathy III			22.0	22.0	2.0
MNGT 7020	Practice Management II: Marketing			11.0	11.0	1.0
MSRG 7010	Minor Surgery I			16.5	16.5	1.5
MSRG 7010L	Minor Surgery I Lab		11.0		11.0	1.0
OBST 7010	Obstetrics			27.5	27.5	2.5
ACMD 7070	Acupuncture and Chinese Medicine VII: Case Analysis and Management I			22.0	22.0	2.0
NUTR 7044	Nutrition IV			22.0	22.0	2.0
CLTR 7000	Clinical Clerkships (2) <sup>2</sup>	88.0			88.0	8.0
See additional courses and credits required for degree completion						
Year 3 Quarter 10 Totals		88.0	33.0	187.0	308.0	28.0

# ND 4 Year Program of Study

## 4 Year Program of Study - Year Three *(Continued)*

Quarter 11		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
BOTM 7050	Botanical Medicine V: Naturopathic Materia Medica Pharmacognosy & Therapeutics III			22.0	22.0	2.0
GNMP 7040	General Medical Practice: Cardio/Vascular Medicine			16.5	16.5	1.5
HMEO 7040	Homeopathy IV			22.0	22.0	2.0
MNGT 7030	Practice Management III: Leadership			11.0	11.0	1.0
PSYC 7034	Mind Body Medicine: Affect Psychotherapy /Crisis Intervention			22.0	22.0	2.0
ACMD 7084	Acupuncture and Chinese Medicine VIII: Case Analysis and Management II			22.0	22.0	2.0
PEDS 7010	Pediatrics I			22.0	22.0	2.0
CLTR 7000	Clinical Clerkships (2) <sup>2</sup>	88.0			88.0	8.0
CLTR 4508	Comprehensive Clinical Skills Assessment I <sup>1</sup>	22.0			22.0	2.0
See additional courses and credits required for degree completion						
Year 3 Quarter 10 Totals		110.0	0.0	137.5	247.50	22.5

Quarter 12		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
PEDS 8020	Pediatrics II			22.0	22.0	2.0
ERMD 8014	Emergency Medicine			33.0	33.0	3.0
GNMP 7041	General Medical Practice: Pulmonology			16.5	16.5	1.5
CLTR 7000	Clinical Clerkships (5) <sup>2</sup>	220.0			220.0	20.0
See additional courses and credits required for degree completion						
Year 3 Quarter 12 Totals		220.0	0.0	71.5	291.50	26.5
Grand Totals - Year 3		506	33	572	1,089	101



# ND 4 Year Program of Study

## 4 Year Program of Study - Year Four

Quarter 13		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
GNMP 8050	General Medical Practice: Rheumatology			22.0	22.0	2.0
GNMP 8051	General Medical Practice: Musculoskeletal / Orthopedic Conditions			11.0	11.0	1.0
PSYC 8040	Mind Body Medicine: Medical Management of Addiction			16.5	16.5	1.5
MSRG 8020	Minor Surgery II			11.0	11.0	1.0
MSRG 8020L	Minor Surgery Lab II		11.0		11.0	1.0
CLTR 8000	Clinical Clerkships (5) <sup>2</sup>	220.0			220.0	20.0
See additional courses and credits required for degree completion						
Year 4 Quarter 13 Totals		220.0	11.0	60.5	291.5	26.5

Quarter 14		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
CAPS 8034	NPLEX II Review			60.0	60.0	0.0
GNMP 8060	General Medical Practice: Neurology			22.0	22.0	2.0
GNMP 8070	General Medical Practice: Urology / Kidney / Male			16.5	16.5	1.5
GNMP 8074	General Medical Practice: Men's Health			11.0	11.0	1.0
CLTR 8000	Clinical Clerkships (5) <sup>2</sup>	220.0			220.0	20.0
CLTR 4908	Comprehensive Clinical Case Study <sup>1</sup>	22.0			22.0	2.0
See additional courses and credits required for degree completion						
Year 4 Quarter 14 Totals		242.0	0.0	109.5	351.5	26.5

Quarter 15		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
GNMP 8061	General Medical Practice: Oncology			16.5	16.5	1.5
GNMP 8076	General Medical Practice: Geriatrics			22.0	22.0	2.0
MNGT 8040	Practice Management IV: Administration			11.0	11.0	1.0
CLTR 8000	Clinical Clerkships (5) <sup>2</sup> (weeks 1-11)	220.0			220.0	20.0
See additional courses and credits required for degree completion						
Year 4 Quarter 15 Totals		220.0	0.0	49.5	253.0	24.5

# ND 4 Year Program of Study

## 4 Year Program of Study - Year Four *(Continued)*

Additional courses and credits required for degree completion

Course #	Course Title	Contact Hours			Total Contact Hours	Total Credit Hours
		Clinic	Lab	Didactic		
TBD	Didactic Selectives*			132.0	132.0	12.0
CLTR 6600	Lab Post <sup>1</sup> ** (may take in Qtrs. 4-8)	11.0			11.0	1.0
CLTR 6704	Medicinary/IV Post <sup>1</sup> ** (may take in Qtrs. 4-8)	11.0			11.0	1.0
CLTR 6004	Field Observation <sup>2</sup> (may take in Qtrs. 4-8)	44.0			44.0	4.0
CLTR 6100	Break Rotation <sup>2</sup> *** (may take in Qtrs. 9-15)	44.0			44.0	4.0
Totals		110.0	0.0	132.0	242.0	22.0
Grand Totals - Year 4		792	11	351.5	1,127	99.5

Grand Totals	Clinic	Lab	Didactic	Total
Credit Hours	143.5	31.0	215.5	390.0
Contact Hours	1,578.5	34.0	2,490.5	4,410.0

CNME Requirement Grand Total	Clinic
Clerkship Credits	112.0
Clerkship Contact Hours	1,232.0

\*The 12-20 total credit hours of didactic selectives may be taken in Qtr. 4 or Qtrs. 8-19 (RSCH 6600 may be taken in Qtrs. 2-19)

\*\* The lab post and medicinary/IV posts may be taken in Qtrs. 4-8

\*\*\*The 4-credit break rotation can be taken in Qtrs. 9-15

<sup>1</sup> These hours do not count toward the 1,200 clock hours of clinical training required by CNME.

<sup>2</sup> These hours count toward the 1,200 clock hours of clinical training required by CNME.

# ND 5 Year Program of Study

## ND Five Year Program of Study

### 5 Year Program of Study - Year One

Quarter 1		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
ANAT 5014	Regional Anatomy, Embryology and Histology I			55.0	55.0	5.0
ANAT 5014L	Regional Anatomy, Embryology and Histology I Lab		33.0		33.0	3.0
PHYS 5014	Human Physiology and Endocrinology I			44.0	44.0	4.0
PHYS 5014L	Human Physiology and Endocrinology I Lab		11.0		11.0	1.0
ICSA 5014	Integrated Case Studies Application I			11.0	11.0	1.0
NTMD 5010	Philosophical and Historical Foundations of Naturopathic Medicine I			22.0	22.0	2.0
Year 1 Quarter 1 Totals		0.0	44.0	132.0	176.0	16.0

Quarter 2		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
ANAT 5024	Regional Anatomy, Embryology and Histology II			33.0	33.0	3.0
ANAT 5024L	Regional Anatomy, Embryology and Histology II Lab		33.0		33.0	3.0
PHYS 5024	Human Physiology and Endocrinology II			44.0	44.0	4.0
PHYS 5024L	Human Physiology and Endocrinology II Lab		11.0		11.0	1.0
ICSA 5024	Integrated Case Studies Application II			11.0	11.0	1.0
Year 1 Quarter 2 Totals		0.0	44.0	88.0	132.0	12.0

Quarter 3		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
ANAT 5034	Regional Anatomy, Embryology and Histology III			33.0	33.0	3.0
ANAT 5034L	Regional Anatomy, Embryology and Histology III Lab		33.0		33.0	3.0
PHYS 5034	Human Physiology and Endocrinology III			44.0	44.0	4.0
PHYS 5034L	Human Physiology and Endocrinology III Lab		11.0		11.0	1.0
ICSA 5034	Integrated Case Studies Application III			11.0	11.0	1.0
Year 1 Quarter 3 Totals		0.0	44.0	88.0	132.0	12.0

# ND 5 Year Program of Study

## 5 Year Program of Study - Year One *(Continued)*

Quarter 4		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
PSYC 6010	Mind Body Medicine: Fundamentals of Mind-Body Medicine			22.0	22.0	2.0
ANAT 5048	Neuroanatomy			22.0	22.0	2.0
ENVM 6010	Environmental Medicine			27.5	27.5	2.5
See additional courses and credits required for degree completion						
Year 1 Quarter 4 Totals		0.0	0.0	71.5	71.50	6.5
Grand Totals - Year 1			132	379.5	511.5	46.5

## 5 Year Program of Study - Year Two

Quarter 5		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
BIOC 5014	Biochemistry I			44.0	44.0	4.0
RSCH 5016	Research I			11.0	11.0	1.0
CLPR 5010	Intro to Clinical Practice I <sup>1</sup>	22.0			22.0	2.0
CLPR 5010L	Intro to Clinical Practice Skills Lab I <sup>1</sup>	22.0			22.0	2.0
See additional courses and credits required for degree completion						
Year 2 Quarter 5 Totals		44.0		55.0	99.0	9.0

Quarter 6		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
BIOC 5026	Biochemistry II			44.0	44.0	4.0
IMMU 5024	Immunology			33.0	33.0	3.0
RSCH 5024	Research II			11.0	11.0	1.0
CLPR 5020	Intro to Clinical Practice II <sup>1</sup>	22.0			22.0	2.0
CLPR 5020L	Intro to Clinical Practice Skills Lab II <sup>1</sup>	22.0			22.0	2.0
NTMD 5020	Philosophical and Historical Foundations of Naturopathic Medicine II			22.0	22.0	2.0
See additional courses and credits required for degree completion						
Year 2 Quarter 6 Totals		44.0		110.0	154.0	14.0

# ND 5 Year Program of Study

## 5 Year Program of Study - Year Two *(Continued)*

Quarter 7		Contact Hours			Total Contact Hours	Total Credit Hours
		Clinic	Lab	Didactic		
Course #	Course Title					
MGEN 5038	Medical Genetics			33.0	33.0	3.0
MICR 5026	Microbiology I			33.0	33.0	3.0
MICR 5026L	Microbiology I Lab		22.0		22.0	2.0
CLPR 5030	Intro to Clinical Practice III <sup>1</sup>	22.0			22.0	2.0
CLPR 5030L	Intro to Clinical Practice Skills Lab III <sup>1</sup>	22.0			22.0	2.0
NTMD 5030	Philosophical and Historical Foundations of Naturopathic Medicine III			22.0	22.0	2.0
See additional courses and credits required for degree completion						
Year 2 Quarter 7 Totals		44.0	22.0	88.0	154.0	14.0

Quarter 8		Contact Hours			Total Contact Hours	Total Credit Hours
		Clinic	Lab	Didactic		
Course #	Course Title					
CAPS 5018	Basic Sciences Capstone (weeks 1-4)			33.0	33.0	3.0
GNMD 6014	General Medical Diagnosis I (weeks 5-11)			77.0	77.0	7.0
MICR 5034	Microbiology II			44.0	44.0	4.0
PHMD 6010	Physical Medicine I: Intro to Physical Medicine and Orthopedics			11.0	11.0	1.0
PHMD 6010L	Physical Medicine I: Intro to Physical Medicine and Orthopedics Lab		11.0		11.0	1.0
ACMD 6010	Acupuncture and Chinese Medicine I: Theory & Fundamentals of Acupuncture and Chinese Medicine			27.5	27.5	2.5
See additional courses and credits required for degree completion						
Year 2 Quarter 8 Totals		0.0	11.0	192.5	203.5	18.5
Grand Totals - Year 2		132	33	445.5	610.5	55.5



# ND 5 Year Program of Study

## 5 Year Program of Study - Year Three

Quarter 9		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
CLPR 6040	Clinical Practice I <sup>1</sup>	22.0			22.0	2.0
CLPR 6040L	Clinical Practice Skills Lab I <sup>1</sup>	22.0			22.0	2.0
GNMD 6024	General Medicine Diagnosis II			99.0	99.0	9.0
BOTM 6010	Botanical Medicine I: Intro to Botanical Medicine			22.0	22.0	2.0
NUTR 6014	Nutrition I			22.0	22.0	2.0
ACMD 6020	Acupuncture and Chinese Medicine II: TCM Diagnosis			27.5	27.5	2.5
PHAR 6010	Pharmacology and Pharmacotherapeutics I			33.0	33.0	3.0
PHMD 6020	Physical Medicine II: Naturopathic Manipulative Treatment Assessment & Application I			22.0	22.0	2.0
PHMD 6020L	Physical Medicine II: Naturopathic Manipulative Treatment Assessment & Application I Lab		22.0		22.0	2.0
See additional courses and credits required for degree completion						
Year 3 Quarter 9 Totals		44.0	22.0	225.5	291.5	26.5

Quarter 10		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
CLPR 6050	Clinical Practice II <sup>1</sup>	22.0			22.0	2.0
CLPR 6050L	Clinical Practice Skills Lab II <sup>1</sup>	22.0			22.0	2.0
GNMD 6034	General Medicine Diagnosis III			99.0	99.0	9.0
BOTM 6020L	Botanical Medicine Lab II: Pharmacy of Botanical Medicine (Fall Entry Students may take Q11)		22.0		22.0	2.0
NUTR 6024	Nutrition II			27.5	27.5	2.5
ACMD 6030	Acupuncture and Chinese Medicine III: Meridians & Points I			22.0	22.0	2.0
ACMD 6030L	Acupuncture and Chinese Medicine III: Meridians & Points I Lab		11.0		11.0	1.0
PHAR 6020	Pharmacology and Pharmacotherapeutics II			33.0	33.0	3.0
PHMD 6030	Physical Medicine III: Naturopathic Manipulative Treatment Assessment & Application II			22.0	22.0	2.0
PHMD 6030L	Physical Medicine III: Naturopathic Manipulative Treatment Assessment & Application II Lab		22.0		22.0	2.0
See additional courses and credits required for degree completion						
Year 3 Quarter 10 Totals		44.0	55.0	203.5	302.5	27.5

# ND 5 Year Program of Study

## 5 Year Program of Study – Year Three *(Continued)*

Quarter 11		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
CLPR 6060	Clinical Practice III <sup>1</sup>	22.0			22.0	2.0
CLPR 6060L	Clinical Practice Skills Lab III <sup>1</sup>	22.0			22.0	2.0
GNMD 6044	General Medical Diagnosis IV			88.0	88.0	8.0
HMEO 6010	Homeopathy I			22.0	22.0	2.0
ACMD 6040	Acupuncture and Chinese Medicine IV: Meridians & Points II			16.5	16.5	1.5
ACMD 6040L	Acupuncture and Chinese Medicine IV: Meridians & Points II Lab		11.0		11.0	1.0
PHAR 6030	Pharmacology and Pharmacotherapeutics III			33.0	33.0	3.0
PHMD 6054	Physical Medicine V: Principles of Hydrotherapy			11.0	11.0	1.0
PHMD 6054L	Physical Medicine V: Principles of Hydrotherapy Lab		22.0		22.0	2.0
CLTR 4304	Clinical Entry Skills Assessment <sup>1</sup>	16.5			16.5	1.5
See additional courses and credits required for degree completion						
Year 3 Quarter 11 Totals		60.5	33.0	170.5	264.0	24.0

Quarter 12		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
CAPS 6024	NPLEX I Review (weeks 1-3)			60.0	60.0	0.0
MNGT 6010	Practice Management I: Operations			11.0	11.0	1.0
GNMP 6011	General Medical Practice: Dermatology (weeks 5-12)			11.0	11.0	1.0
GNMP 6014	General Medical Practice: EENT (weeks 5-12)			22.0	22.0	2.0
PSYC 6024	Mind Body Medicine: Intro to Medical Psychotherapy (weeks 5-12)			16.5	16.5	1.5
PHMD 6040	Physical Medicine IV: Physiotherapy Modalities (weeks 5-12)			11.0	11.0	1.0
PHMD 6040L	Physical Medicine IV: Physiotherapy Modalities Lab (weeks 5-12)		11.0		11.0	1.0
ACMD 7060	Acupuncture and Chinese Medicine VI: Acupuncture Techniques (weeks 5-12)			11.0	11.0	1.0
ACMD 7060L	Acupuncture and Chinese Medicine VI: Acupuncture Techniques Lab (weeks 5-12)		11.0		11.0	1.0
See additional courses and credits required for degree completion (can be used to attain part-time or full-time status)						
Year 3 Quarter 12 Totals		0.0	22.0	142.5	164.5	9.5
Grand Totals - Year 3		148.5	132	742	1,022.5	87.5

# ND 5 Year Program of Study

## 5 Year Program of Study - Year Four

Quarter 13		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
BOTM 7030	Botanical Medicine III: Naturopathic Materia Medica Pharmacognosy & Therapeutics I			22.0	22.0	2.0
GNMP 7020	General Medical Practice: Gastroenterology			27.5	27.5	2.5
GYNE 7010	Gynecology I			33.0	33.0	3.0
HMEO 7020	Homeopathy II			22.0	22.0	2.0
NUTR 7034	Nutrition III			27.5	27.5	2.5
ACMD 7057	Acupuncture and Chinese Medicine V: Traditional Chinese Medicine Pathology			44.0	44.0	4.0
CLTR 7000	Clinical Clerkships (2) <sup>2</sup>	88.0			88.0	8.0
See additional courses and credits required for degree completion						
Year 4 Quarter 13 Totals		88.0	0.0	176.0	264.0	24.0

Quarter 14		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
BOTM 7044	Botanical Medicine IV Naturopathic Materia Medica Pharmacognosy & Therapeutics II			27.5	27.5	2.5
GNMP 7030	General Medical Practice: Endocrinology			27.5	27.5	2.5
GNMP 7031	General Medical Practice: Hematology			11.0	11.0	1.0
GYNE 7020L	Gynecology Lab (may take in Qtr 14 or Qtr 15)		22.0		22.0	2.0
HMEO 7030	Homeopathy III			22.0	22.0	2.0
MNGT 7020	Practice Management II: Marketing			11.0	11.0	1.0
MSRG 7010	Minor Surgery I			16.5	16.5	1.5
MSRG 7010L	Minor Surgery I Lab		11.0		11.0	1.0
OBST 7010	Obstetrics			27.5	27.5	2.5
ACMD 7070	Acupuncture and Chinese Medicine VII: Case Analysis and Management I			22.0	22.0	2.0
NUTR 7044	Nutrition IV			22.0	22.0	2.0
CLTR 7000	Clinical Clerkships (2) <sup>2</sup>	88.0			88.0	8.0
See additional courses and credits required for degree completion						
Year 4 Quarter 14 Totals		88.0	33.0	187.0	308.0	28.0

# ND 5 Year Program of Study

## 5 Year Program of Study - Year Four (*Continued*)

Quarter 15		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
BOTM 7050	Botanical Med V Naturopathic Materia Medica Pharmacognosy & Therapeutics III			22.0	22.0	2.0
GNMP 7040	General Medical Practice: Cardio/Vascular Medicine.			16.5	16.5	1.5
HMEO 7040	Homeopathy IV			22.0	22.0	2.0
MNGT 7030	Practice Management III: Leadership			11.0	11.0	1.0
PSYC 7034	Mind Body Medicine: Affect Psychotherapy /Crisis Intervention			22.0	22.0	2.0
ACMD 7084	Acupuncture and Chinese Medicine VIII: Case Analysis and Management II			22.0	22.0	2.0
PEDS 7010	Pediatrics I			22.0	22.0	2.0
CLTR 7000	Clinical Clerkships (2) <sup>2</sup>	88.0			88.0	8.0
CLTR 4508	Comprehensive Clinical Skills Assessment <sup>1</sup>	22.0			22.0	2.0
See additional courses and credits required for degree completion						
Year 4 Quarter 15 Totals		110.0	0.0	137.5	247.5	22.5

Quarter 16		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
PEDS 8020	Pediatrics II			22.0	22.0	2.0
ERMD 8014	Emergency Medicine			33.0	33.0	3.0
GNMP 7041	General Medical Practice: Pulmonology			16.5	16.5	1.5
CLTR 7000	Clinical Clerkships (5) <sup>2</sup>	220.0			220.0	20.0
See additional courses and credits required for degree completion						
Year 4 Quarter 16 Totals		220.0	0.0	71.5	291.5	26.5
Grand Totals - Year 4		506	33	572	1,111	101

# ND 5 Year Program of Study

## 5 Year Program of Study - Year Five

Quarter 17		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
GNMP 8050	General Medical Practice: Rheumatology			22.0	22.0	2.0
GNMP 8051	General Medical Practice: Musculoskeletal / Orthopedic			11.0	11.0	1.0
PSYC 8040	Mind Body Medicine: Medical Management of Addiction			16.5	16.5	1.5
MSRG 8020	Minor Surgery II			11.0	11.0	1.0
MSRG 8020L	Minor Surgery Lab II		11.0		11.0	1.0
CLTR 8000	Clinical Clerkships (5) <sup>2</sup>	220.0			220.0	20.0
See additional courses and credits required for degree completion						
Year 5 Quarter 17 Totals		220.0	11.0	60.5	291.5	26.5

Quarter 18		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
CAPS 8034	NPLEX II Review			60.0	60.0	0.0
GNMP 8060	General Medicine Practice: Neurology			22.0	22.0	2.0
GNMP 8070	General Medicine Practice: Urology / Kidney / Male			16.5	16.5	1.5
GNMP 8074	General Medical Practice: Men's Health			11.0	11.0	1.0
CLTR 8000	Clinical Clerkships (5) <sup>1</sup>	220.0			220.0	20.0
CLTR 4908	Comprehensive Clinical Case Study <sup>1</sup>	22.0			22.0	2.0
See additional courses and credits required for degree completion						
Year 5 Quarter 18 Totals		242.0	0.0	109.5	351.5	26.5

Quarter 19		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
GNMP 8061	General Medical Practice: Oncology			16.5	16.5	1.5
GNMP 8076	General Medical Practice: Geriatrics			22.0	22.0	2.0
MNGT 8040	Practice Management IV: Administration			11.0	11.0	1.0
CLTR 8000	Clinical Clerkships (5) <sup>2</sup> (weeks 1-11)	220.0			220.0	20.0
See additional courses and credits required for degree completion						
Year 5 Quarter 19 Totals		220.0	0.0	49.5	269.5	24.5



# ND 5 Year Program of Study

## 5 Year Program of Study - Year Five *(Continued)*

Additional courses and credits that count toward degree completion		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
TBD	Didactic Selectives* (may be taken in Qtr. 4 or Qtrs. 8-19)			132.0	132.0	12.0
CLTR 6600	Lab Post <sup>1**</sup> (may take in Qtr. 4 or Qtrs. 8-12)	11.0			11.0	1.0
CLTR 6704	Medicinary/IV Post <sup>1**</sup> (may take in Qtr. 4 or Qtrs. 8-12)	11.0			11.0	1.0
CLTR 6004	Field Observation <sup>2</sup> (may take in Qtr. 4 or Qtrs. 8-12)	44.0			44.0	4.0
CLTR 6100	Break Rotation <sup>2***</sup> (may take in Qtrs. 9-19)	44.0			44.0	4.0
Totals		110.0	0.0	132.0	242.0	22.0
Grand Totals - Year 5		792	11	351.5	1,154.5	99.5

Grand Totals	Clinic	Lab	Didactic	Total
Credit Hours	143.5	31.0	215.5	390.0
Contact Hours	1,578.5	341.0	2,90.5	4,410.0

CNME Requirement Grand Total	Clinic
Clerkship Credits	126.0
Clerkship Contact Hours	1,232.0

\*The 12-20 total credit hours of didactic selectives may be taken in Qtr. 4 or Qtrs. 8-19 (RSCH 6600 may be taken in Qtrs. 2-19)

\*\*The lab post and medicinary/IV posts may be taken in Qtr. 4 or Qtrs. 8-12

1 These hours do not count toward the 1,200 clock hours of clinical training required by CNME.

2 These hours count toward the 1,200 clock hours of clinical training required by CNME.

# ND Course Descriptions

## ND Course Descriptions

*(Listed in alphabetical order)*

### *ACMD 6010 Acupuncture and Chinese Medicine I: Theory and Fundamentals of Acupuncture and Chinese Medicine*

(Didactic credits: 2.5)

This course introduces the fundamental concepts of Acupuncture and Chinese Medicine, including yin yang, five elements theory, zang-fu organ systems, qi, blood and body fluid, meridian systems, Traditional Chinese Medicine etiology, and pathogenesis and treatment principles. This course lays a foundation for further study.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

### *ACMD 6020 Acupuncture and Chinese Medicine II: Traditional Chinese Medicine Diagnosis*

(Didactic credits: 2.5)

In this course the basics of Traditional Chinese Medicine (TCM) Four Diagnostic Techniques are studied. TCM case-history taking, including the classic ten questions and significance of elucidated symptoms, is explored, as well as classic diagnostic methods such as inspection, listening and smelling, and tongue and pulse diagnosis. Syndrome Differentiation based on Eight Principle Theory is also introduced.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

### *ACMD 6030, 6040 Acupuncture and Chinese Medicine III, IV: Meridians and Points I, II ACMD 6030L, 6040L Acupuncture and Chinese Medicine III, IV Lab*

(ACMD 6030: Didactic credits: 2; Lab credits: 1)

(ACMD 6040: Didactic credits: 1.5; Lab credits: 1)

This two-course sequence covers the Traditional Chinese Medicine acupuncture points and meridians. The location, function, and indications of acupuncture points of each meridian are studied. Practical, hands-on experience in point location occurs with the supervision of an experienced acupuncturist.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

### *ACMD 7057 Acupuncture and Chinese Medicine V: Traditional Chinese Medicine Pathology*

(Didactic credits: 4)

In this course, students will learn to identify key symptoms of Zang-Fu organ patterns and the method of syndrome

differential diagnosis of TCM according to Zang-Fu organ system theory. Therapeutic principles and acupuncture treatment for individual patterns will also be studied.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

### *ACMD 7060 Acupuncture and Chinese Medicine VI: Acupuncture Techniques ACMD 7060L Acupuncture and Chinese Medicine VI Lab*

(Didactic credits: 1; Lab credits: 1)

This course covers basic needling techniques used in acupuncture, such as needle insertion, removal, tonification, reduction, bleeding, interdermal needle, and electric stimulator; also cupping, moxibustion, and Gusha. Practical experience in needling technique occurs under the supervision of an experienced acupuncturist. Clean needle and safe needling techniques are discussed. Basic auricular acupuncture is introduced.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

### *ACMD 7070 Acupuncture and Chinese Medicine VII: Case Analysis and Management I*

(Didactic credits: 2)

In this course a case analysis approach illustrates the disease entities commonly encountered in clinical practice. Students translate western disease assessments into Traditional Chinese Medicine syndromes. The differential diagnosis of syndromes is reviewed, along with the therapeutic principles required for acupuncture and Chinese prepared medicines.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

### *ACMD 7084 Acupuncture and Chinese Medicine VIII: Case Analysis and Management II*

(Didactic credits: 2)

This course continues the exploration of case analysis and management of the disease entities commonly encountered in practice that began in ACMD 7070. The differential diagnosis of syndromes is reviewed, along with the therapeutic principles required for effective treatment. Acupuncture protocols are emphasized, along with Chinese prepared medicines.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

# ND Course Descriptions

## *ANAT 5014 Regional Anatomy, Embryology, and Histology I*

### *ANAT 5014L Regional Anatomy, Embryology, and Histology I Lab*

(Didactic credits: 5; Lab credits: 3)

(Course fee applies – See Tuition and Fees.)

The first of three anatomy blocks, this course includes interactive didactic and laboratory instruction to learn the gross anatomy, embryology, and histology of the human body as it relates to the practice of medicine. Lab instruction includes cadaver dissection. This systems-based approach starts with fundamental concepts and continues with organ system anatomy. This course is taught in coordination with the PHYS 5014 and ICSA 5014 courses.

*Prerequisite: admission to the program*

## *ANAT 5024 Regional Anatomy, Embryology, and Histology II*

### *ANAT 5024L Regional Anatomy, Embryology, and Histology II Lab*

(Didactic credits: 3; Lab credits: 3)

(Course fee applies – See Tuition and Fees.)

The second of three anatomy blocks, this course includes interactive didactic and laboratory instruction to learn the gross anatomy, embryology, and histology of the human body as it relates to the practice of medicine. Lab instruction includes cadaver dissection. This systems-based approach continues with organ systems anatomy. This course is taught in coordination with the PHYS 5024 and ICSA 5024 courses.

*Prerequisite: completion of all previous quarter's courses as outlined in student's prescribed program of study*

## *ANAT 5034 Regional Anatomy, Embryology, and Histology III*

### *ANAT 5034L Regional Anatomy, Embryology, and Histology III Lab*

(Didactic credits: 3; Lab credits: 3)

(Course fee applies – See Tuition and Fees.)

The third of three anatomy blocks, this course includes interactive didactic and laboratory instruction to learn the gross anatomy, embryology, and histology of the human body as it relates to the practice of medicine. Lab instruction includes cadaver dissection. This systems-based approach continues with organ system anatomy. This course is taught in coordination with the PHYS 5034 and ICSA 5034 courses.

*Prerequisite: completion of all previous quarter's courses as outlined in student's prescribed program of study*

## *ANAT 5048 Neuroanatomy*

(Didactic credits: 2)

This course incorporates the gross and microscopic anatomy of the nervous system, its circuitry, functions,

pathophysiology, clinical correlations, and an introduction to imaging techniques used for the study of the nervous system. The course stresses the acquisition and use of concepts. Emphasis will be placed on the clinical relevance of the presented material.

*Prerequisite: Completion of all previous quarters' courses as outlined in the students' prescribed program of study*

## *BIOC 5014 Biochemistry I*

(Didactic credits: 4)

This foundational course is the first of a three-quarter sequence in cell biology, medical biochemistry, and genetics. This course details the structure and function of the cell, as well as the molecules utilized within it, including but not limited to nucleic acids, carbohydrates, amino acids/proteins, and lipids. Structure and function relationships are stressed, with emphasis on enzyme and coenzyme function and regulation. Enzymatic regulation and cellular function are further explored within intermediary metabolism, including glycolysis, citric acid cycle, and oxidative phosphorylation. Emphasis is placed on the utilization of vitamins as coenzymes, their roles in mitochondrial energetics, and their physiologic sequelae.

*Prerequisite: Completion of all previous quarters' courses as outlined in the students' prescribed program of study*

## *BIOC 5026 Biochemistry II*

(Didactic credits: 4)

This foundational course is the second course within a three-quarter sequence in cell biology, medical biochemistry, and genetics. This course focuses on the study of the body's metabolic processes, including but not limited to carbohydrates, fatty acids, lipids, nitrogen and amino acids, and nucleotides.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *BOTM 6010 Botanical Medicine I: Introduction to Botanical Medicine*

(Didactic credits: 2)

This course lays the foundation for the botanical medicine component of the curriculum at Sonoran University. The format is interactive lecture and question/answer. Course content includes the foundations of botanical medicine, introduction to materia medica and monograph study, overview of various delivery systems and constituents, botanical terminology, herbal properties and actions, formulary, and posology. There is also an overview of plants found in our Southwest environment and adaptive techniques for survival.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

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## *BOTM 6020L Botanical Medicine II Lab: Pharmacy of Botanical Medicine*

(Lab credits: 2)

(Course fee applies – See Tuition and Fees.)

This hands-on course familiarizes students with the preparation of herbal medicine. The format is lecture and interactive demonstration. Students actively participate in the preparation of aqueous extracts, tinctures, herbal oils and salves, syrups, capsules, oxymels, poultices, and compresses. Students examine the comparable disadvantages of each type of preparation and identify the role pharmacognosy plays in determining optimal extraction and delivery for a variety of plants. Other topics presented include organoleptic assessment, quality assessment, ecological harvest of raw materials, storage, solubility of constituents, and botanical prescription writing. Monograph study is included for herbs commonly used in topical preparations. This course, along with BOTM 6010, provides the foundational information for further study in the following *materia medica* courses.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *BOTM 7030, 7044, 7050 Botanical Medicine III, IV, V: Naturopathic Materia Medica Pharmacognosy/Therapeutics I, II, III*

(BOTM 7030: Didactic credits: 2)

(BOTM 7044: Didactic credits: 2.5)

(BOTM 7050: Didactic credits: 2)

These consecutive courses provide students with the necessary knowledge and skills to understand herbal medicine in the naturopathic *materia medica*. Students are taught *materia medica* from an organ system perspective including gastrointestinal, respiratory, immune, cardiovascular, EENT, reproductive, urinary, endocrine, musculoskeletal, and nervous systems. Material presented on each botanical includes taxonomy, description, habitat, part(s) used, pharmacognosy, actions, historical and current medicinal actions and uses, dosing, delivery, and safety, all of which are used to critically analyze the application of each botanical.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *CAPS 5018 Basic Sciences Capstone*

(Didactic credits: 3) (Weeks 1 - 4)

This 4-week block is a capstone for the basic sciences curriculum of the previous three quarters. The topics are integrative and include review of the first-year basic science courses. The final exam is cumulative and covers all of the

physiology sequence as well as all the anatomy, biochemistry, immunology, and microbiology of the first three quarters.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *CAPS 6024 NPLEX I Review*

(Didactic credits: 0) (Weeks 1 - 3)

This course guides and supports the student preparing for the NPLEX I exam. Through the administration of mock NPLEX exams, students identify strengths and weaknesses in their basic science knowledge. Students will develop a personalized content review plan. Content review will be provided in the following subject areas: anatomy, physiology, biochemistry, microbiology, and pathology.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *CAPS 8034 NPLEX II Review*

(Didactic credits: 0) (Weeks 1 - 11)

This course guides and supports the student preparing for the NPLEX II exam. It includes review of general medical diagnosis and clinical practice disciplines. Emphasis will be placed on the diagnosis, naturopathic treatment, and principles of the following clinical modalities: nutrition, homeopathy, botanical medicine, mind-body medicine, acupuncture and Chinese medicine, physical medicine, and emergency medicine.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *CLPR 5010, 5020, 5030 Introduction to Clinical Practice I, II, III*

### *CLPR 5010L, 5020L, 5030L Introduction to Clinical Practice Skills Lab I, II, III*

(CLPR 5010: Clinical credits: 2; Lab credits: 2)

(CLPR 5020: Clinical credits: 2; Lab credits: 2)

(CLPR 5030: Clinical credits: 2; Lab credits: 2)

(Lab and course fees apply – See Tuition and Fees.)

These courses are an introduction to the art of practicing medicine. It begins with the development, enhancement, and exercise of cognitive analytical and evaluative thinking. Growth and professionalism will be practiced through affective skills, active listening, interviewing technique, and the self-application of healthy behavior. Medical ethics, jurisprudence, and cultural and social considerations will be explored. Differential diagnosis, critical thinking, and case assessment will be introduced through case-based learning. Public health, epidemiology, and basic lab procedures will be addressed. Basic skills in phlebotomy and injection techniques will be practiced through hands-on lab exercises. Beginning clinical skills such as the patient interview, heart and lung physical exams, clinical



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assessment, and charting will prepare the student for clinical observation opportunities and for the required standardized clinical practice exam at the end of the first year.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study. Lecture and laboratory courses are corequisites.*

## *CLPR 6040, 6050, 6060 Clinical Practice I, II, III CLPR 6040L, 6050L, 6060L Clinical Practice Skills Lab I, II, III*

(CLPR 6040: Clinical credits: 2; Lab credits: 2)

(CLPR 6050: Clinical credits: 2; Lab credits: 2)

(CLPR 6060: Clinical credits: 2; Lab credits: 2)

(Lab fee applies— See Tuition and Fees.)

These courses expand the clinical practice coursework to include male, female, orthopedic, Head/Ears/Eyes/Nose/Throat (HEENT), abdominal, and neurological systems physical exams. It will refine the integration of subjective and objective information into an effective and realistic patient assessment. Clinical decision-making and case management will be exercised using case-based instruction. Cultural competencies and social diversities in private practice and in community medicine will be explored. Preventative approaches and health screening standards will be addressed. Students will also review basic electronic health record skills. Skills formulating and administering IV nutrients will be introduced. Clinical skills such as the patient interview, heart and lung physical exams, clinical assessment, and charting will be more deeply explored in preparation for a clinic entry exam required at the end of year 2 (year 3 in the 5-year track) prior to beginning the year 3 (year 4 in the 5-year track) clerkships.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study. Lecture and laboratory courses are corequisites.*

## *CLTR 4304 Clinical Entry Skills Assessment*

(Clinical credits: 1.5)

(Course fee applies – See Tuition and Fees.)

This course is dedicated to preparation for the Clinic Entry Examination (CEE) in year 2 (year 3 in the 5-year track) and the beginning of clinical rotations. The exam simulates clinical encounters that are commonly found in a general clinical practice utilizing Standardized Patients (SPs) trained to act out the role of the patient in clinical scenarios. Students will be refining their intake, differential diagnosis, and assessment skills through group activities including practice cases performed in class. Included in the course will be a range of self-, peer-, and physician-rated assessments. Students will practice orally delivering a case in an appropriate and efficient manner and practice charting

skills. In addition, they will review administrative skills such as coding, complete clinical training modules for entry into clinic, and become familiarized with basic clinic procedures.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *CLTR 4508 Comprehensive Clinical Skills Assessment I*

(Clinical credits: 2)

(Course fee applies – See Tuition and Fees.)

This course comprises a global assessment of core competencies required to practice as a beginning naturopathic physician. The Sonoran University Objective Structured Clinical Examination (OSCE), the final milestone exam, will assess students' communication, interpersonal, clinical, and charting skills. The exam simulates clinical encounters that are commonly found in general clinical practice utilizing Standardized Patients (SPs). The course includes case review modules designed to familiarize students with the assessment process and expectations, covering skills of patient communication, history taking, physical examination, differential diagnosis, laboratory assessment, and treatment. Course includes a range of self-, peer-, and physician-rated assessments.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *CLTR 4908 Comprehensive Clinical Case Study*

(Clinical credits: 2)

This course builds on core competencies required to practice as a beginning naturopathic physician. The course includes case review modules designed to improve students' proficiency in differential diagnosis, laboratory assessment, patient communication, interpersonal skills, critical thinking, charting skills, treatment, and case management. Included in the course will be a range of self-, peer-, and physician-rated assessments. The case review modules simulate clinical encounters that are commonly found in a general clinical practice. The course also covers a clinical ethics module utilizing cases and group discussion and examination to assess competency.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*



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## *CLTR 6004 Field Observation*

(Clinical credits: 4)

Field observation provides students with opportunities to observe established healthcare practitioners in their private clinical practices. Observation hours are completed during the first two years of the program (three years for students on the 5-year track) which allow students to gain early clinical experiences prior to beginning their clinical clerkships. Students are required to document 44 hours of observation and 40 patient contacts in the following categories: direct patient, indirect patient, and patient services/practice management.

*Prerequisites: completion of quarters 1-3, including CLPR 5030, and the successful completion of the Jurisprudence exam required for attainment of a clinical training certificate from the Arizona Naturopathic Physicians Medical Board (NPMB) (see program of study for additional eligibility requirements for the 5-year track).*

## *CLTR 6600 Laboratory Post*

(Clinical credits: 1)

The laboratory post is an immersion course designed to introduce students to the Sonoran University Medical Center procedures with a focus on laboratory functions. Students will build an understanding of the requirements to set up a laboratory; compliance with OSHA, HIPAA, and CLIA; and laboratory billing, insurance filing, accurate coding, and interpreting lab results. Students will enhance their skills in phlebotomy and capillary collection, specimen processing, and performing waived testing.

*Prerequisites: completion of quarters 1-3 (see program of study for additional eligibility requirements for the 5-year track); valid OSHA and HIPAA certifications*

## *CLTR 6704 Medicinary/IV Post*

(Clinical credits: 1)

During the medicinary post section of this course, students gain a foundation for understanding the mechanics of a medicinary. Students learn skills related to maintaining the day-to-day functions of a medicinary including selecting quality supplements and botanical medicines, as well as ordering, receiving, stocking, and shipping products. Students are also introduced to MySonoran resources for the medicinary and business strategies for hiring and retaining employees and preventing fraud. During the IV section of the course, students will gain a basic foundation of the clinical practice of IV therapy. The information reviewed includes basic nutrients for infusion, IV room set up, IV administration, vaccination administration, and legal and safety aspects of having injectable therapy in your practice.

*Prerequisites: completion of quarters 1-3 (see program of study for additional eligibility requirements for the 5-year track)*

## *CLTR 8000 Clinical Clerkships*

(Clinical credits: 4 per clerkship)

Clinical clerkships provide the student with practical clinical exposure, information, and additional medical knowledge in a clinical setting focusing on primary care medicine. Students will demonstrate skills in history taking and physical examinations, become skilled at differentiating between common medical conditions, and develop basic plans of treatment consistent with the principles of the naturopathic therapeutic order. Clerkships are completed at the Sonoran University Medical Center, the Neil Riordan Center for Regenerative Medicine, and -affiliated clinical sites staffed by Sonoran University faculty. In addition, the student will have an opportunity to work with private physicians.

*Prerequisites: passing score on Clinic Entry Exam and, for 4-year track, completion of quarters 1-8; for 5-year track, completion of quarters 1-12*

## *ENVM 6010 Environmental Medicine*

(Didactic credits: 2.5)

The course will begin with the major families of chemical toxins and then will be divided into those whose primary routes of exposure are via indoor air, outdoor air, and food. Within each chemical family the main health effects will be covered along with methods of testing. Biotransformation will then be addressed along with genetic polymorphisms in those pathways and nutrient impact. Cellular and systemic effects of toxins will then be covered to not only show the classic presentations, but also the biochemical mechanisms for their effects. The classic presentation of environmental illness will be covered along with taking an environmental history. The course will be rounded out with methods of treatments.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *ERMD 8014 Emergency Medicine*

(Didactic credits: 3)

This course provides students with experiences to differentially diagnose signs, symptoms, and situations in acute medical care. Students learn to recognize emergency signs and situations involving various organ systems. Emphasis is on the integration of current allopathic drugs and procedures and the complementary practice of acute care by naturopathic physicians.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

# ND Course Descriptions

## *GNMD 6014 General Medical Diagnosis I*

(Didactic credits: 7) (weeks 5-11)

General Medical Diagnosis will be taught in a systems-based block format with integrated course content. Pathology will be aligned with instruction in clinical, physical, radiological, and laboratory diagnosis. This course will begin with the general study of cell injury, inflammation, tissue repair, neoplasia, and principles of diagnostic imaging. Hematology and dermatology will follow with integrated course content.

*Prerequisites: completion of CAPS 5014 and all previous quarters' courses as outlined in students' prescribed program of study*

## *GNMD 6024 General Medical Diagnosis II*

(Didactic credits: 9)

General Medical Diagnosis will be taught in a systems-based block format with integrated course content. Pathology will be aligned with instruction in clinical, physical, radiological, and laboratory diagnosis. This course will include EENT, endocrinology, male and female reproductive disorders, and musculoskeletal disorders. Naturopathic strategies for diagnosis will be included.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *GNMD 6034 General Medical Diagnosis III*

(Didactic credits: 9)

General Medical Diagnosis will be taught in a systems-based block format with integrated course content. Pathology will be aligned with instruction in clinical, physical, radiological, and laboratory diagnosis. This course will include cardiovascular, respiratory, and urinary disorders, as well as behavioral health.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *GNMD 6044 General Medical Diagnosis IV*

(Didactic credits: 8)

General Medical Diagnosis will be taught in a systems-based block format with integrated course content. Pathology will be aligned with instruction in clinical, physical, radiological, and laboratory diagnosis. This course will include gastrointestinal and neurological disorders. Naturopathic strategies for diagnosis will be included.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *GNMP 6011 General Medical Practice: Dermatology*

(Didactic credits: 1)

The clinical presentations discussed in the course include malignancies and benign masses, infections and

inflammation, burns, hair and nail disorders, pruritus, skin ulcers, and skin rashes.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *GNMP 6014 General Medical Practice: Eyes, Ears, Nose, and Throat (EENT)*

(Didactic credits: 2)

This course provides an introductory exploration of common and high-risk EENT conditions seen in general naturopathic practice. Symptoms, assessment, diagnosis, and therapeutic considerations will be examined.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *GNMP 7020 General Medical Practice: Gastroenterology*

(Didactic credits: 2.5)

This course is a comprehensive study of the gastrointestinal tract. Students will gain an understanding regarding the pathophysiology, diagnosis, clinical presentation, management of emergent situations, and standard and naturopathic treatment of conditions of the esophagus, stomach, pancreas, gallbladder, liver, small intestine, large intestine, rectum, and anus, as well as beneficial bacteria and pathogens found in the gut. Student competency will be assessed through examination and literature analysis of emergent topics in gastroenterology.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *GNMP 7030 General Medical Practice: Endocrinology*

(Didactic credits: 2.5)

This course focuses on the complex interactions of the human hormonal system, including the causes and effects of hormonal imbalance and dysregulation. Principles and methods of naturopathic endocrinology are discussed, including functional assessments, prevention of disease, and restoration of endocrine function, as well as hormone replacement protocols. Class instruction will focus on basic patient management of the most common endocrine disorders seen in a general medical practice, including the appropriate use of prescription hormones and complementary therapeutics.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

# ND Course Descriptions

## *GNMP 7031 General Medical Practice: Hematology*

(Didactic credits: 1)

The clinical presentations discussed in this course include different types of anemia and leukemia, Hodgkin's and non-Hodgkin's lymphomas, myeloproliferative disorders, plasma cell dyscrasias, and clotting disorders. It will provide students with current guidance on the diagnosis and naturopathic treatment of blood diseases and on consultative problems in hematology.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *GNMP 7040 General Medical Practice: Cardiology and Vascular Medicine*

(Didactic credits: 1.5)

The clinical presentations discussed in the course include differentiation of chest pain, syncope, and dyspnea, as well as infections, inflammations, acute coronary syndrome, peripheral vascular disease, hypotension, hypertension, valvular disorders, arrhythmias, heart failure, malignancies, transient ischemic attack, cerebrovascular accident, and cardiovascular shock.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *GNMP 7041 General Medical Practice: Pulmonology*

(Didactic credits: 1.5)

This course will begin with a review of the anatomy and physiology of the respiratory system. Evaluation of the patient with symptoms including cough, dyspnea, and chest pain will introduce various disorders. Allopathic and naturopathic treatments for various conditions will be presented. Some of the conditions included will be obstructive and restrictive disorders, infections, cancer, pulmonary embolism, ARDS, and respiratory failure.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *GNMP 8050 General Medical Practice: Rheumatology*

(Didactic credits: 2)

The clinical presentations discussed in the course include autoimmune and inflammatory conditions primarily affecting the musculoskeletal system. Emphasis is placed on the etiology, diagnosis, management, and treatment of monoarticular, polyarticular, and autoimmune disorders.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *GNMP 8051 General Medical Practice: Musculoskeletal/Orthopedic Conditions*

(Didactic credits: 1)

This advanced course addresses the clinical management of musculoskeletal and orthopedic conditions of joint and bone. Areas of focus include the spine and upper and lower extremities. The management of patients presenting with comorbidities, including infection, inflammation, malignancies, masses, injuries, and trauma, is discussed.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *GNMP 8060 General Medical Practice: Neurology*

(Didactic credits: 2)

The clinical presentations discussed in the course include masses and malignancies, cognitive disorders, infections and inflammations, stroke, coma, vascular disorders, weakness / paralysis, sleep disorders, headache, pain modulation, movement disorders, dizziness, vertigo, gait disturbances, syncope, seizures, neurodegenerative diseases, and trauma.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *GNMP 8061 General Medical Practice: Oncology*

(Didactic credits: 1.5)

The clinical presentations discussed in the course include cancer cell biology, pathology, screening, and prevention guidelines. The principles and conventional therapies for cancer will be covered in addition to in-depth integrative naturopathic oncology for the most commonly observed cancers.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *GNMP 8070 General Medical Practice: Urology/Kidney/Male Conditions*

(Didactic credits: 1.5)

The clinical presentations discussed in the course include generalized edema, electrolyte imbalances, metabolic acidosis, metabolic alkalosis, hypertension, hematuria, polyuria, urinary frequency, dysuria, renal mass, proteinuria, acute renal failure, urinary obstruction, renal colic, nephrolithiasis, and chronic renal failure. The male reproductive system will include cancers and masses, male infertility, testicular conditions, prostate conditions, sexual dysfunction, erectile dysfunction, and trauma.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

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## *GNMP 8074 General Medical Practice: Men's Health*

(Didactic credits: 1)

This course focuses on the etiology, diagnosis, management, and treatment of male health conditions. Students will learn evidence-based, effective naturopathic treatment protocols. Criteria for referral to specialists and integration of naturopathic medicine with conventional medicine are also covered.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *GNMP 8076 General Medical Practice: Geriatrics*

(Didactic credits: 2)

This course focuses on the physiology of aging as well as the assessment and treatment of common disorders in the elderly, including dementia, musculoskeletal disorders, nervous system disorders, circulatory disorders, and ocular disorders. Emphasis is placed on symptoms and concerns commonly associated with aging, including social and functional limitations, nutritional issues, elder abuse, and medication management.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *GYNE 7010 Gynecology I*

(Didactic credits: 3)

This course focuses on the etiology, diagnosis, management, and treatment of gynecological problems. Students will learn evidence-based, effective naturopathic treatment protocols. Criteria for referral to specialists and integration of naturopathic medicine with conventional medicine are also covered. This structure of the course includes lecture, assigned readings, quizzes, cases, group discussion, and examinations. Attendance is required, and each student is expected to come to class prepared by reading the assignments and PowerPoints a day or two before the corresponding class.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *GYNE 7020L Gynecology Lab*

(Lab credits: 2)

(Course fee applies – See Tuition and Fees.)

This laboratory course teaches examination and procedures associated with gynecological diagnosis and treatment. This is part lecture, part hands-on laboratory experience performing exams and gynecological procedures on models. Attendance is required, and each student is expected to come to class prepared by reading the assignments and PowerPoints before class.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *HMEO 6010, 7020, 7030, 7040 Homeopathy I, II, III, and IV*

(HMEO 6010: Didactic credits: 2)

(HMEO 7020: Didactic credits: 2)

(HMEO 7030: Didactic credits: 2)

(HMEO 7040: Didactic credits: 2)

These courses are an integrated series that sequentially introduce the student to the art and practice of homeopathy. They will draw on and utilize the knowledge and skills gained in each of the previous homeopathy department courses. These courses are primarily designed to impart the knowledge of homeopathy necessary for the student to pass the homeopathic portion of the NPLEX licensing exam. In addition, these courses lay the foundation for the further study and mastery of homeopathy on clinical homeopathy clerkships. Topics include Materia Medica of all the homeopathic medicines tested by NPLEX, homeopathic philosophy and theory including detailed examination of the Organon of Medicine, review of current research literature, case taking and case analysis, computer repertorization, treatment and management of acute and chronic disease states, and integrating homeopathy with other naturopathic treatment options. These courses will utilize both lecture and case-based teaching methods, along with team-based and other active forms of learning.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *ICSA 5014 Integrated Case Studies Application I*

(Didactic credits: 1)

This team-taught course, in conjunction with the ANAT 5014 and PHYS 5014 courses, utilizes cooperative learning and provides clinical correlations to the basic sciences. Critical thinking and problem-solving skills are emphasized.

*Prerequisite: admittance to the 4-year ND program*

## *ICSA 5024 Integrated Case Studies Application II*

(Didactic credits: 1)

This team-taught course, in conjunction with the ANAT 5024 and PHYS 5024 courses, utilizes cooperative learning, and provides clinical correlations to the basic science steam-based. Critical thinking and problem-solving skills are emphasized.

*Prerequisite: completion of all previous quarter's courses as outlined in student's prescribed program of study*



# ND Course Descriptions

## *ICSA 5034 Integrated Case Studies Application III*

(Didactic credits: 1)

This team-taught course, in conjunction with the ANAT 5034 and PHYS 5034 courses, utilizes cooperative learning and provides clinical correlations to the basic sciences. Critical thinking and problem-solving skills are emphasized.

*Prerequisite: completion of all previous quarter's courses as outlined in student's prescribed program of study*

## *IMMU 5024 Immunology*

(Didactic credits: 3)

This course is designed to familiarize students with cellular, molecular, and biochemical aspects of the development of the immune system and the immune response. The course focuses on the development of the immune system and the function of its major components. The course explores the basic principles of the immune system, including tolerance, the development and differentiation of lymphocyte subsets, the regulation of immune responses, memory, cell-cell interactions, antigen presentation and recognition, vaccination, and immune-associated diseases.

*Prerequisites: completion of all previous quarter's courses as outlined in student's prescribed program of study*

## *MGEN 5038 Medical Genetics*

(Didactic credits: 3)

This course focuses on molecular biology and genetics. The topics focus on biosynthesis of nucleic acids, DNA replication, transcription, regulation of translation, and post-translational modifications. Emphasis is on the human genome and Mendelian inheritance, as well as cellular differentiation, cell biology, signal transduction, oncogenetics, nutritional genomics, and pharmacogenetics.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *MICR 5026 Microbiology I*

### *MICR 5026L Microbiology I Lab*

(Didactic credits: 3; Lab credits: 2)

(Lab coat fees – See Tuition and Fees.)

This is the first of a two-quarter sequence in microbiology and includes lecture and laboratory sessions. In this course students identify and examine the bacteria that are associated with human disease. This includes evaluation of virulence factors, modes of transmission, epidemiology, general pathology, and the basis of the human immune response to these factors.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *MICR 5034 Microbiology II*

(Didactic credits: 4)

This course is the continuation of MICR 5024. In this course students identify and examine other microorganisms that are associated with human disease. This includes evaluation of virulence factors, modes of transmission, epidemiology, and general pathology of viruses, parasites, and fungi and the human immune defense against them.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *MNGT 6010 Practice Management I: Operations*

(Didactic credits: 1)

This course focuses on providing practical business foundations where students are introduced to naturopathic industry concepts and operations. Skills and techniques are presented that can be applied in any working environment (entrepreneur, associate, or independent contractor). Topics covered include naturopathic degree career tracks, CV and cover letter creation, interview skills, business plan basics, practice models, clinical and business pearls (as they apply to 2<sup>nd</sup> year medical students), vocational skill self-assessments, and what students can do now to help prepare for their future careers.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *MNGT 7020 Practice Management II: Marketing*

(Didactic credits: 1)

This is the second course in the management series where marketing foundations are introduced. Marketing tools and strategies are examined with emphasis upon building a successful naturopathic practice. Focus is given to authentically promoting and maintaining a practice and personal brand through online and offline systems, professionalism, and the integration of naturopathic philosophy. This course provides various strategies to support marketing, to build a successful practice, or to prepare yourself to work as an employee or contractor in the health care industry.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*



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## *MNGT 7030 Practice Management III: Leadership*

(Didactic credits: 1)

This is the third course in the management series where leadership foundations are introduced. Leadership competencies and character are examined with emphasis upon inspiring, influencing, and impacting communities and populations at large. Focus is given to the creation of mission and vision statements; setting goals and planning for success; mastering the heart, mind, and skill of the naturopathic leader; and creating a “culture of care” in one’s practice, patient programs, and career. This class provides ideas and examples to model across the spectrum of practitioners, consultants, researchers, and others.

*Prerequisites: completion of all previous quarters’ courses as outlined in students’ prescribed program of study*

## *MNGT 8040 Practice Management IV: Administration*

(Didactic credits: 1)

This course focuses on providing practical business foundations for students’ post-graduate success. Skills and techniques will be presented that can be applied in any working environment (entrepreneur, associate, or independent contractor). Topics covered include licenses/certifications, necessary insurance(s), entity and tax structures, financial basics, and administrative fundamentals.

*Prerequisites: completion of all previous quarters’ courses as outlined in students’ prescribed program of study*

## *MSRG 7010 Minor Surgery I: Introduction to Minor Surgery*

### *MSRG 7010L Minor Surgery I Lab*

(Didactic credits: 1.5; Lab credits: 1)

(Equipment fee applies– See Tuition and Fees.)

This course introduces the naturopathic medical student to the fundamentals and principles of conducting minor surgical procedures in the office setting. Basic surgical techniques for the removal and/or treatment of various skin lesions, subcutaneous tissues, and laceration repair will be presented with hands-on practice in the laboratory. Principles of anesthesia, knot tying, instrumentation, diagnostics, clinical and patient evaluation, sterile field, aseptic technique, and emergency care will be discussed with emphasis on appropriate referral. At the termination of the course, students should be proficient in the diagnosis and treatment by surgical means of common epidermal, dermal, and subdermal lesions.

Students will also be able to do a focused intake in relation to minor surgical procedures as well as give patient education regarding diagnosis and aftercare instructions.

*Prerequisites: completion of all previous quarters’ courses as outlined in students’ prescribed program of study*

*Lecture and laboratory courses are corequisites.*

## *MSRG 8020 Minor Surgery II: Advanced Techniques in Minor Surgery*

### *MSRG 8020L Minor Surgery II Lab*

(Didactic credits: 1; Lab credits: 1)

(Equipment fee may apply– See Tuition and Fees.)

This course will review the fundamentals of conducting basic and advanced minor surgical procedures in the office setting. Basic surgical techniques from MSRG 7010 will be reviewed and expanded upon. Advanced suture techniques and minor surgical procedures for the removal and/or treatment of various integumentary and mucosal lesions will be presented weekly with hands-on practice in the laboratory.

*Prerequisites: completion of all previous quarters’ courses as outlined in students’ prescribed program of study*

## *NTMD 5010, 5020, 5030 Philosophical and Historical Foundations of Naturopathic Medicine I, II, III*

(NTMD 5010: Didactic credits: 2)

(NTMD 5020: Didactic credits: 2)

(NTMD 5030: Didactic credits: 2)

This is a three-quarter course sequence designed to introduce beginning medical students to the history and philosophy of naturopathic medicine. This is a team-taught course with emphasis given to the applied principles and historical milestones as well as the origins and development of naturopathic therapeutics including botanical medicine, homeopathy, hydrotherapy, mind-body medicine, nutrition, pharmacology, physical medicine, and Traditional Chinese Medicine. The intention of this course is for students to (1) actively engage in exploration and discovery of their personal relationship to naturopathic medicine by critically examining both controversial and widely-accepted issues and ideas within the naturopathic profession; (2) identify, strengthen, and cultivate the human dimension of the practice of medicine, including reflection and communication; and (3) clarify a personal commitment to the principles of naturopathic medicine.

*Prerequisites: for NTMD 5010, admittance to the ND program; for NTMD 5020 and 5030, completion of all previous quarters’ courses as outlined in students’ prescribed program of study.jj*

# ND Course Descriptions

## *NUTR 6014 Nutrition I: Macronutrients and Nutritional Science*

(Didactic credits: 2)

This course examines cellular nutrition and metabolism, gastrointestinal function, and the role of macronutrients (fats, carbohydrates, proteins, and fiber) in health and disease. Nutritional science and the philosophies of nutritional protocols to create, maintain, and restore health are discussed. The structure of this course includes hands-on culinary lab instruction in the teaching kitchen as well as interactive lectures and discussion.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *NUTR 6024 Nutrition II: Micronutrients and Therapeutic Dynamics*

(Didactic credits: 2.5)

This course examines the human body's need for specific micronutrients, the science of determining basic nutritional requirements, the role of each micronutrient, their availability in food, and the factors that influence absorption and utilization, including genetics, diseases, drug interactions, environment, exercise, and lifestyle. Effective dosing, safety considerations, and contraindications are discussed. The structure of this course includes hands-on culinary lab instruction in the teaching kitchen as well as interactive lectures and discussion.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *NUTR 7034 Nutrition III: Clinical Nutrition*

(Didactic credits: 2.5)

This course introduces the clinical evaluation of diet and the diagnosis of nutritional needs. Specialized therapeutic diets and nutritional supplements will be explored for health maintenance and select populations. This course stresses therapeutic nutrition and diet as it is used to treat various diseases and conditions seen clinically in naturopathic medical practices.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *NUTR 7044 Nutrition IV: Advanced Strategies for Clinical Nutrition*

(Didactic credits: 2)

This case-based course will discuss strategies in clinical evaluation and protocol implementation for complex conditions. Implementation strategies for clinical scenarios that involve comorbidities, socio-economic challenges, and age-related issues will be included. Nutritional testing, meal planning, recipes, food education, and supplementation for

preventative care and acute and chronic conditions will be explored for individualized treatment.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *OBST 7010 Obstetrics*

(Didactic credits: 2.5)

This course prepares the student to provide basic health care appropriate for the pregnant woman. Topics include diagnosis of pregnancy, initiating prenatal care, therapeutics for early complications of pregnancy, management of spontaneous abortion, infertility, overview of normal and complicated labor/delivery, and the postpartum care of mothers and infants. The student is prepared to screen for risks and to offer patients referrals and informed choices related to hospital or out-of-hospital birthing options.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *PEDS 7010 Pediatrics I*

(Didactic credits: 2)

This course focuses on the assessment of common problems in infancy, childhood, and adolescence. Emphasis is on normal developmental milestones, disease prevention, and the treatment of common childhood conditions. Appropriate referral is addressed.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *PEDS 8020 Pediatrics II*

(Didactic credits: 2)

This course is a continuation of common and complex problems in infancy, childhood, and adolescence. Disease prevention, treatment, and appropriate referral will be addressed.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *PHAR 6010 Pharmacology and Pharmacotherapeutics I*

(Didactic credits: 3)

This course focuses on the principles and mechanisms of drug action and the purpose of pharmaceutical interventions. Emphasis is placed on drugs that act on neurotransmitter systems, including autonomics, hypnotics, and medications used in the treatment of pain, seizure, depression, anxiety, bipolar, psychosis, Parkinson's, and dementia, as well as drugs of abuse. It includes overviews of the pharmaceutical environment, legal and statutory issues, and basic terminology.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

# ND Course Descriptions

## *PHAR 6020 Pharmacology and Pharmacotherapeutics II*

(Didactic credits: 3)

This course continues the discussion of drug therapeutics, their mechanisms, and their uses. Side effects, toxicity, interaction, and contraindications are included in this course.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *PHAR 6030 Pharmacology and Pharmacotherapeutics III*

(Didactic credits: 3)

This course continues the discussion of drug therapeutics, their mechanisms, and their uses. Side effects, toxicity, interaction, and contraindications are included in this course.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *PHMD 6010 Physical Medicine I: Introduction to Physical Medicine and Orthopedics*

### *PHMD 6010L Physical Medicine Lab*

(Didactic credits:1; Lab credits: 1)

This course examines the study of physical medicine as a diagnostic and therapeutic tool. Emphasis is given to regional physical assessment using palpation, orthopedic tests, and orthopedic muscle testing. The theory of injury, inflammation, and the fibrosis of repair and joint end feel are examined along with a review of joint range of motion and trigger points.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

*Lecture and laboratory courses are corequisites.*

## *PHMD 6020 Physical Medicine II: Naturopathic Manipulative Treatment – Assessment and Application I*

### *PHMD 6020L Physical Medicine II Lab*

(Didactic credits: 2; Lab credits: 2)

This is part one of a two-course sequence that covers the evaluation of normal and abnormal findings of the spine through static palpatory assessment of normal and positional deviations, assessment of joint mobility through motion palpation, grading of orthopedic muscular strength, joint range-of-motion, differential diagnosis of common and special disorders, and evaluation of common disease conditions and injury of the musculoskeletal patient. Emphasis is on regional orthopedic physical assessment and osseous manipulation (HVLA). Manipulative evaluation and treatment include the sacro-iliac, lumbo-sacral, lumbar, thoracic, ribs, cervical, and occipital spinal areas. Students demonstrate application of Naturopathic Manipulative

Treatment and patient management of the musculoskeletal patient. Naturopathic philosophy and principles are integrated into the course presentation.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *PHMD 6030 Physical Medicine III: Naturopathic Manipulative Treatment – Assessment and Application II*

### *PHMD 6030L Physical Medicine III Lab*

(Didactic credits: 2; Lab credits: 2)

This is part two of a two-course sequence which covers the evaluation of normal and abnormal findings of the extremities through static palpatory assessment of normal and postural deviations. The students will learn assessments of joint mobility through motion palpation, grading of orthopedic muscle strength and joint range of motion, differential diagnosis of common and special disorders, and evaluation of disease and injury of the musculoskeletal patient, including concussion. Emphasis is on regional orthopedic physical assessment with orthopedic testing, muscle testing, and osseous manipulation. Manipulative treatment includes the upper and lower extremities, temporomandibular joint (TMJ), and specialty visceral manipulative techniques. Patient management of the musculoskeletal patient, including exercise, will be introduced; types of pain and mechanoreceptor stimulation with movement will be discussed; and orthopedic biomechanics of posture and gait will be examined. Students are introduced to neuromuscular technique, muscle energy technique, and cranio-sacral technique. Also included is a review and refinement of spinal manipulative techniques. Naturopathic philosophy and principles are integrated into the course presentation.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study.*

## *PHMD 6040 Physical Medicine IV:*

### *Physiotherapy Modalities*

### *PHMD 6040L Physical Medicine IV Lab*

(Didactic credits: 1; Lab credits: 1)

This is a course in physical therapy modalities. A variety of modalities will be explored, including ultrasound, electric muscle stimulation, microcurrent, TENS, cold laser, diathermy, iontophoresis, and others. The modalities will be studied in terms of the mechanism by which they function and how to physically apply the modalities to the patient. Students will have hands-on experience in a lab setting learning how to appropriately apply modalities. A variety of clinical applications will be discussed.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

*Lecture and laboratory courses are corequisites.*

# ND Course Descriptions

## *PHMD 6054 Physical Medicine V: Principles of Hydrotherapy*

### *PHMD 6054L Physical Medicine V Lab*

(Didactic credits: 1; Lab credits: 2)

This course will cover the physiology, clinical applications, and practice management of Naturopathic Hydrotherapy. By the conclusion of this course, students will be able to demonstrate written, verbal, and practical knowledge of hydrotherapy theories and skills; the physiologic response to different water treatments, temperatures, and associated applications; and how to apply techniques in acute and chronic disease safely and effectively. The use of constitutional hydrotherapy, sauna, and other methods will be taught and practiced.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *PHYS 5014 Human Physiology and Endocrinology I*

### *PHYS 5014L Human Physiology and Endocrinology I Lab*

(Didactic credits: 4; Lab credits: 1)

The first of three physiology blocks, this course includes interactive didactic and laboratory instruction to examine the physiology and endocrinology of the human body. The first block includes general concepts in cell and membrane biology and begins organ systems physiology. This course is taught in coordination with the ANAT 5014 and ICSA 5014 courses.

*Prerequisite: admission to the program*

## *PHYS 5024 Human Physiology and Endocrinology II*

### *PHYS 5024L Human Physiology and Endocrinology II Lab*

(Didactic credits: 4; Lab credits: 1)

The second of three physiology blocks, this course includes interactive didactic and laboratory instruction to examine the physiology and endocrinology of the human body. This systems-based approach continues with organ system physiology. This course is taught in coordination with the ANAT 5024 and ICSA 5024 courses.

*Prerequisite: completion of all previous quarters' courses as outlined in students' prescribed program of study.*

## *PHYS 5034 Human Physiology and Endocrinology III*

### *PHYS 5034L Human Physiology and Endocrinology III Lab*

(Didactic credits: 4; Lab credits: 1)

The third of three physiology blocks, this course includes interactive didactic and laboratory instruction to examine the physiology and endocrinology of the human body. This systems-based approach continues with organ system

physiology. This course is taught in coordination with the ANAT 5034 and ICSA 5034 courses.

*Prerequisite: completion of all previous quarters' courses as outlined in students' prescribed program of study.*

## *PSYC 6010 Mind-Body Medicine: Fundamentals of Mind-Body Medicine*

(Didactic credits: 2)

This course provides the foundation necessary to understand the fundamental dynamics of mind-body medicine, including psychosocial and spiritual dimensions in healing. Students will learn how to facilitate in themselves and other people mind-body practices for disease prevention and treatment. Mind-body processes and techniques such as grounding skills, mindfulness practices, breathing exercises, biofeedback, and tapping therapies are discussed and critically examined for their potential role in integrative naturopathic healthcare.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *PSYC 6024 Mind-Body Medicine: Introduction to Medical Psychotherapy*

(Didactic credits: 1.5)

An overview of developmental and behavioral theory, counseling skills, and techniques is presented, along with stages in the healing process. The multi-modal model of physician as counselor in the healing relationship is critically examined. Students will critically explore the roles of patient education, patient motivation for change, and medical ethics in the doctor/patient relationship. Clinical cases will provide opportunities to develop healthy communication and counseling skills. Students will be introduced to the Diagnostic and Statistical Manual of Mental Health Disorders (DSM) with a focus on recognition and diagnosis of mental health disorders commonly encountered in the naturopathic primary care setting, including how to assess risk and identify appropriate community referrals.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *PSYC 7034 Mind-Body Medicine: Affect Psychotherapy and Crisis Intervention*

(Didactic credits: 2)

Students will develop the necessary foundation and general strategies to recognize, intervene, and refer patients who are experiencing transitional, traumatic, and acute psychiatric disorders. Elements of family dynamics, domestic violence, abuse, death and dying, homocidality, bullying, and suicidality are critically explored. Medical ethics issues related to these behavioral health dimensions are discussed. The use of agencies and referral sources is



# ND Course Descriptions

emphasized, as are crisis intervention and other strategies for dealing with emergency situations.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *PSYC 8040 Mind-Body Medicine: Medical Management of Addiction*

(Didactic credits: 1.5)

This course provides a naturopathic model for care and treatment of people suffering from addiction. Students will explore health impacts of drug, food, and other addictions with a focus on interactive medical, psycho-social, spiritual, and biochemical/nutritional influences. This course will present a multi-modal approach to the practice of naturopathic addiction medicine, including patient motivation to change. Students will have opportunities to interact with guest speakers experienced in the field of addiction care.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *RSCH 5016 Research I*

(Didactic credits: 1)

This is the first of a two-quarter sequence of research courses. This course discusses the scientific method, scientific technology, and the analysis of scientific data in general as it relates to naturopathic medicine.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*

## *RSCH 5024 Research II*

(Didactic credits: 1)

This course is the continuation of RSCH 5016. This course discusses the types and aids in the evaluation of journals and other scientific publications in which medical literature can be found. Students will be exposed to methods for evaluating the varying significance of research findings.

*Prerequisites: completion of all previous quarters' courses as outlined in students' prescribed program of study*



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## ND Selectives Course Descriptions

Doctor of Naturopathic Medicine students are required to take a minimum of 12 selective credits but may take up to 20 selective credits as part of their required program of study. While Doctor of Naturopathic Medicine students are eligible to enroll in more than 20 selective credits, federal aid is not available for tuition costs that exceed the maximum 20 selective credits.

Some selectives may limit enrollment due to course-specific requirements.

*(Listed in alphabetical order)*

### *ACMD 6980 Chinese Prepared Medicines*

(Didactic credits: 2.5)

This course explores Chinese prepared medicines for common syndromes and disorders because the acupuncture practitioner in North America commonly uses pill or tincture forms for adjunctive therapy. This course trains the student in the skills necessary to critically evaluate the many products available. Classical Chinese patent medicines and contemporary North American Chinese prepared formulas are discussed.

*Prerequisites: ACMD 6010, ACMD 6020, ACMD 6030, ACMD 6040, ACMD 7054, ACMD 7055, and ACMD 7070*

### *BOTM 6934 Botanical Medicine in the Rocky Mountains*

(Didactic credits: 2)

This course is a four-day field study near Lyons, Colorado. Specific campsite information will be given to students, and students can either set up tents or car-camp. Day trips are planned to different locations and elevations in the local canyons and meadows for plant diversity. Approximately 30 to 40 plants will be available for plant identification, materia medica, and herbal therapeutics discussions including case studies, ethical wild-harvest, and medicine making. Discussion related to clinical use of plants will take place throughout the field identification, harvesting, and medicine-making segments. Individual constituents, actions, energetics, extraction, delivery, and safety will be examined for each plant. Additional costs include campsite fee, food, transportation, and medicine-making supplies.

*Prerequisites: completion of quarters 1-3 (see program of study for additional eligibility requirements for the 5-year track)*

### *BOTM 6954 Pharmacognosy & Phytochemistry*

(Didactic credits: 2)

This course is an overview of secondary metabolites found in medicinal plants. This topic will be explored through the major classes of plant constituents in order to understand the activity of plants and offer a framework for the clinical application of botanical medicine. It will cover basic plant chemistry and examine solubility and extraction, variability and synergy, as well as review biosynthetic pathways, absorption, metabolism, standardization, and concentration. The primary focus of the course is on the major categories and subcategories of phytochemicals relevant to botanical medicine and the physiological effects these constituents have on the human body.

*Prerequisites: BOTM 6010*

### *BOTM 6996 Introduction to Medical Cannabis*

(Didactic credits: 1.5)

This course will cover the historical use of cannabis as medicine, pharmacology and chemistry of the cannabis plant, the endocannabinoid system, clinical uses of medical cannabis, and laws and process for recommending medical cannabis in Arizona.

*Prerequisites: BOTM 7030*

### *BOTM 6998 Botanical Medicine Therapeutics: Developing Clinical Proficiency*

(Didactic credits: 1.5)

This is an interactive case-based course focusing on the development of botanical formulation to treat common conditions. This course is designed to prepare students for the demands of a broad-based naturopathic practice and to gain expertise in phytotherapy. Case studies will be utilized to illustrate the complexity of botanical prescribing. Formulation will be emphasized as a clinical strategy in conditions of multifactorial etiologies and multi-organ system disease processes. The recognition of quality botanical medicine will also be addressed as well as materia medica review. The quality and value of this course largely depends on student participation in lecture and learning exercises. Be prepared for participation in this course.

*Prerequisites: BOTM 7030, BOTM 7040, BOTM 7050*

### *CLTR 9901 Advanced Topics in Pediatrics*

(Didactic credits: 1)

The advanced topics selective course in Pediatrics is intended for clinic students and required for those in the Pediatrics honors track program. The objective is to advance discipline-specific knowledge. Students will critically review and interpret pediatric medicine research

# ND Course Descriptions

and utilize this knowledge for weekly debates with classmates. The debates will advance the students' ability to verbally communicate their knowledge, increase leadership confidence, and direct future evidence-informed clinical care.

*Prerequisites: Completion of quarters 1-8 (quarters 1-12 in the 5-year track) and eligibility for clinic*

## *CLTR 9902 Advanced Topics in Community Medicine*

(Didactic credits: 1)

The advanced topics selective course in Community Medicine is intended for clinic students and required for those in the Community Medicine honors track program. The first objective is to advance discipline-specific knowledge. Students will learn how to critically review and interpret clinical/health research and apply this knowledge as evidence-informed clinical care. Secondly, leading a discussion of their research will advance the students' ability to verbally communicate their knowledge and increase leadership confidence.

*Prerequisites: Completion of quarters 1-8 (quarters 1-12 in the 5-year track) and eligibility for clinic*

## *CLTR 9903 Advanced Topics in Regenerative Medicine*

(Didactic credits: 1)

The advanced topics selective course in regenerative medicine is intended for clinic students, and required for those in the regenerative medicine honors track program. The first objective is to advance discipline-specific knowledge. Students will learn how to critically review and interpret clinical/health research and apply this knowledge as evidence informed clinical care. Secondly, leading a discussion of their research will advance the students' ability to verbally communicate their knowledge and increase leadership confidence.

*Prerequisites: Completion of quarters 1-8 (quarters 1-12 in the 5-year track) and eligibility for clinic*

## *CLTR 9905 Advanced Topics in Nature Cure*

(Didactic credits: 1)

The advanced topics selective course in Nature Cure is intended for clinic students and required for those in the Nature Cure honors track program. The first objective is to advance discipline-specific knowledge. Students will learn how to critically review and interpret clinical/health research and apply this knowledge as evidence-informed clinical care. Secondly, leading a discussion of their research will advance the students' ability to verbally communicate their knowledge and increase leadership confidence.

*Prerequisites: Completion of quarters 1-8 (quarters 1-12 in the 5-year track) and eligibility for clinic*

## *ENVM 6940 Heavy Metals*

(Didactic credits: 1.5)

This selective course will cover the most commonly found and most toxic heavy metals (arsenic, cadmium, lead, and mercury). Sources, health effects, and methods of diagnosis and treatment will be covered for each of these toxicants. Research articles on these topics will be made available by the instructor for review and in-class discussion. The accurate interpretation of heavy metal test results will be required for satisfactory completion of this course.

*Prerequisites: ENVM 6010 and completion of the GNMD course sequence through quarter 7 (quarter 11 in the 5-year track)*

## *HMEO 6991 Advanced Case Management*

(Didactic credits: 1)

Students focus on advanced topics in homeopathic medicine and how to integrate homeopathy with general naturopathic practice. This course is, in large measure, case based. This course emphasizes sharpening skills in case analysis and repertorization, advanced study of materia medica, and managing patients with acute and chronic conditions.

*Prerequisites: HMEO 7040*

## *NTMD 6933 Nature Cure*

(Didactic credits: 2)

To prepare for the role of primary-care physician, the student of naturopathic medicine must become skilled in correlating and presenting histories, subjective symptoms, physical signs, and appropriate lab tests with a detailed evaluation of the body's level of health. The purpose of this course is for students to become familiar with the traditional methods of naturopathic medicine and to be able to apply them in clinical practice. Each class will focus on discussions of actual cases and specifically evaluate the application of each of the naturopathic principles to those cases.

*Prerequisites: admission to the ND program (see program of study for eligibility requirements for the 5-year track)*

## *NTMD 6936 The Human in Nature*

(Didactic credits: 2)

This course will explore the concepts, theories, and research behind the benefits of nature exposure. Pertinent research on health conditions in all populations will be discussed and analyzed. The ultimate intent of this course is to impress upon the student the need for continued exposure to nature and play throughout the human life cycle in school, work, and community settings.

*Prerequisites: admission to the ND program (see program of study for eligibility requirements for the 5-year track)*

# ND Course Descriptions

## *NTMD 6950 Advanced Application of Nature Cure*

(Didactic credits: 2)

Advanced Application of Nature Cure expands and deepens the student's experience with many nature cure techniques. A particular emphasis is given to variations for specific diseases and conditions while exploring the effects of the techniques on all levels of the body, mind, and spirit.

*Prerequisite: PHMD 6054*

## *NUTR 6910 Self-care: Role-Modeling Health Behaviors*

(Didactic credits: 2)

This course improves self-care in students to promote personal sustainability and prevent burnout for their own well-being as well as for the benefit of their future clients and team members. Through a combination of didactic and experiential learning, students gain an understanding of the importance and impact of self-care practices. An emphasis will be placed on hands-on, practical approaches for making sustainable changes in diet, exercise, stress management, and sleep hygiene to reduce risk of disease and promote health. As students are empowered with an enhanced capacity for self-care, it is expected that they will be more inclined, and better equipped, to implement these strategies when counseling future clients and/or when leading teams.

*Prerequisite: Admission into program*

## *NUTR 6930 Nutrigenomics and Personalized Nutrition*

(Didactic credits: 2)

This course provides students with foundational knowledge of nutritional genomics and guidance on how to apply nutrigenomics when developing a personalized nutrition plan. Students will explore current evidence on clinical applications of genetics, epigenetics, and nutrigenomics and the impact of personalized genomics on nutritional biochemistry and human physiology. Upon successful completion of the course, students will receive a Certificate in the Principles of Nutritional Genomics from the American Nutrition Association.

*Prerequisite: NUTR 6024*

## *NUTR 6940 Probiotics from Research to Market*

(Didactic credits: 2)

This course brings students along the supply chain and value chain of probiotics and explores this rapidly evolving field from the perspective of the scientist, the clinician, the manufacturer, and the consumer. Students will gain an understanding of the scientific basis for these products, evidence-based clinical applications, and key regulatory and manufacturing considerations. Instruction will also be

provided on the basics from research and development, formulating products, and QA/QC, to manufacturing, labeling, and commercialization.

## *Prerequisites: GNMP 7020, NUTR 6014, NUTR 6024PHMD 6940 Introduction to Neuro Emotional Technique (NET)*

(Didactic credits: 1)

This course serves as an introduction to Neuro Emotional Technique (NET). It is intended to give students a basic understanding of the methods utilized in this modality and instruction on how to apply these skills in clinical practice. Students who desire to study NET in further depth are encouraged to enroll in the NET certification course.

*Prerequisites: admission to the ND program*

## *PHMD 6970 Introduction to Applied Kinesiology*

(Didactic credits: 2)

This course serves as an introduction to applied kinesiology (AK) as taught by its founder, Dr. George Goodheart, and gives students a basic understanding of the methods utilized in this modality and instruction on how to apply these skills in clinical practice. Students who desire to study AK in depth are encouraged to enroll in the certification course.

*Prerequisites: PHMD 6030, ACMD 6030*

## *PHMD 6980 Orthopedic and Sports Medicine*

(Didactic credits: 3.5)

In this course students evaluate sports and orthopedic injuries. Emphasis is on exercise, soft tissue therapies, physiotherapy, and manipulative techniques used in the treatment of sports and orthopedic injuries.

*Prerequisites: PHMD 6030*

## *PHMD 6981 Advanced Hydrotherapy PHMD 6981 Advanced Hydrotherapy Lab*

(Didactic credits: 1; Lab credits: 2)

This course and lab expands and deepens the student's experience with many hydrotherapy techniques. Emphasis is given to variations for specific diseases and conditions.

*Prerequisites: PHMD 6054*

# ND Course Descriptions

## *PSYC 6930 Stress Management*

(Didactic credits: 2)

This course will allow the student to effectively identify and treat signs and symptoms of stress utilizing stress management principles and practices such as meditation, breathing techniques, and cognitive restructuring techniques. Experiential exercises will build students' own stress management skills. The course will also provide guidance in how to apply these skills with patients in clinical practice.

*Prerequisites: admission to the ND program (see program of study for eligibility requirements for the 5-year track)*

## *PSYC 6970 Foundations of Neurofeedback*

(Didactic credits: 3)

Students receive training in the principles and applications of neurofeedback (EEG biofeedback). Neurofeedback is a clinical process for changing the electrical activity, of either cortical or sub-cortical origin, of the Central Nervous System using electroencephalography-based biofeedback and/or electrical stimulation. The neurofeedback process teaches self-regulation of neural activity and related "state change," with promising therapeutic benefits in ADD, migraine, anxiety, depression, head injury, insomnia, and a host of other neuro-cognitive disorders. Course includes neurofeedback history and research, EEG and electrophysiology, instrumentation, treatment planning, and experiential modules designed to familiarize the student with electrode placement and clinical applications. The course also provides an introduction to quantitative EEG interpretation. The integration of neurofeedback as a complementary approach with other therapeutic procedures to enhance health and wellness will be emphasized. This course fulfills didactic requirements for certification from the two major certification boards in neurofeedback and biofeedback.

*Prerequisites: completion of quarters 1-3 (see program of study for eligibility requirements for the 5-year track)*

## *PSYC 6980 Naturopathic Treatments for Mental Illness*

(Didactic credits: 2.5)

This course involves in-depth exploration of specific naturopathic approaches to the most common psychiatric disorders seen in general practice, including depression, bipolar, anxiety, and sleep disorders. This course will allow students to assess, synthesize and prioritize, and implement therapies consistent with naturopathic principles. Course content will include introduction to laboratory and other useful assessments, plus naturopathic treatments including nutrients, herbs, amino acids, biofeedback, homeopathy, and other evidence-based alternative therapies. Indications and treatment options

using conventional drugs and methods are explored alongside alternative approaches. Students will recognize drug/herb and drug/nutrient interactions and specific protocols for safely weaning patients off conventional drug medications when appropriate.

*Prerequisites: admission to the ND program (see program of study for eligibility requirements for the 5-year track)*

## *PSYC 6993 Practicum in Mind-Body Healing*

(Didactic credits: 2)

Students begin utilizing a variety of current methodologies and techniques of mind-body healing. Intervention techniques are applied within a clearly outlined treatment plan. The use and effectiveness of various process-oriented techniques are critically evaluated. Primary focus is given to mind/body healing techniques selected for their potential relevance to naturopathic practice. Students practice and develop their skills and have opportunities for feedback. The instructor, TA, and/or guest-speakers will supervise skill-building sessions and provide effective role-models.

*Prerequisites: admittance to the ND program*

## *PSYC 6995 Basic Medical Hypnosis*

(Didactic credits: 2)

Students learn practical tools and general strategies of hypnotic suggestion for different kinds of patients and problems. Both traditional and informal approaches to hypnosis will be taught, with emphasis placed on general day-to-day applications. Students learn to work with psychologically complex patients who are otherwise resistant to treatment. Accordingly, there will be instruction on how to adapt different techniques to a client's individual needs, and how to use hypnosis for specific clinical problems such as pain control, depression, anxiety, stress management, weight loss, childbirth, and preparation for surgery. General guidelines for other problems that occur in a physician's practice will also be discussed. Ethical issues related to medical hypnosis will be addressed.

*Prerequisites: admission to the ND program (see program of study for eligibility requirements for the 5-year track)*

## *RSCH 6600 Directed Research Project*

(Lab credits: 0.5 - 3)

This course is oriented towards independent medical student projects under the direction of the research faculty. Projects may involve design, implementation, and analysis of clinical and/or bench-top research. Prerequisites, credits, and number of students will be determined by the instructor(s). Admittance to this course is in order of registration within the Registrar's Office until course size limit has been attained.

*Prerequisites: RSCH 5016*



# ND Course Descriptions

## *RSCH 6914 Research Studies: Case Reports and Meta-Analysis I*

(Lab credits: 1)

This is the first of a two-quarter sequence of research courses. Each quarter is worth 1 credit hour, making the entire course worth 2 credit hours. Upon completing and passing the two-quarter sequence, students may re-take the complete two-quarter course one additional time. During this entire course, students will prepare research data for publication. Upon completion of the entire course, students will submit a report to a peer-reviewed journal for review and potential publication. Authorship of the report will include the student, faculty mentor, and other significant contributors.

*Prerequisites: RSCH 5016*

Two options are available for this course:

**Option A (Meta-analysis):** In this option, 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, or 4<sup>th</sup> year students will prepare a meta-analysis report. This meta-analysis report will involve the analysis of a large collection of results from individual studies for the purpose of integrating the findings. The topic of the meta-analysis will be chosen by the student under the supervision and guidance of a faculty mentor.

**Option B (Case report):** In this option, 4<sup>th</sup> year students will prepare a case report. This case report will involve the preparation of a narrative that describes a medical problem and treatment experienced by one or more patients. The topic of the case study will be chosen by the student under the supervision and guidance of a faculty mentor.

## *RSCH 6924 Research Studies: Case Reports and Meta-Analysis II*

(Lab credits: 1)

This is the second of a two-quarter sequence of research courses. Each quarter is worth 1 credit hour, making the entire course worth 2 credit hours. Upon completing and passing the two-quarter sequence, students may re-take the complete two-quarter course one additional time. During this entire course, students will prepare research data for publication. Upon completion of the entire course, students will submit a report to a peer-reviewed journal for review and potential publication. Authorship of the report will include the student, faculty mentor, and other significant contributors.

*Prerequisites: RSCH 6914*

Two options are available for this course:

**Option A (Meta-analysis):** In this option, 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, or 4<sup>th</sup> year students will finish a meta-analysis report that was begun during the first quarter of this course. This meta-analysis report will involve the analysis of a large collection of results from individual studies for the purpose of integrating the findings. The topic of the meta-analysis was chosen by the student under the supervision and guidance

of a faculty mentor during the first quarter of this course, and the report will be completed during this second quarter.

**Option B (Case report):** In this option, 4<sup>th</sup> year students will prepare a case report. This case report will involve the preparation of a narrative that describes a medical problem and treatment experienced by one or more patients. The topic of the case study was chosen by the student under the supervision and guidance of a faculty mentor during the first quarter of this course, and the report will be completed during this second quarter.

## *Sonoran University 5014 Basic Sciences Skill Development I*

(Didactic credits: 0)

This course provides an amalgamation of the basic science content from Q1 with an integration of study and time management strategies. Instruction is provided through the Basic Sciences Faculty, DDC tutors, and the Learning Specialist. Specific content is tailored to the needs of the individual students enrolled in this course.

*Prerequisite: Failure of one or more of the first three basic sciences courses (ANAT 5014, PHYS 5014, BIOC 5014)*

## *Sonoran University 5024 Basic Sciences Skill Development II*

(Didactic credits: 0)

This course provides an amalgamation of the basic science content from Q2 with an integration of study and time management strategies. Instruction is provided through the Basic Sciences Faculty, DDC tutors, and the Learning Specialist. Specific content is tailored to the needs of the individual students enrolled in this course.

*Prerequisite: Failure of one or more of the second set of basic sciences courses (ANAT 5024, PHYS 5024, BIOC 5026)*



# Master's Programs

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# MS Admissions

## Master's Program Admissions

Applicants are required to meet and adhere to the Institutional Admission Policies and Requirements (see the Institutional Admissions Policies) as well as the admission policies and requirements specific to the master's program that they are applying to for admission. Sonoran University offers two master of science (MS) degrees: the Master of Science in Clinical Nutrition (MSCN) and the Executive Master of Science in Nutrition Business Leadership (MSNBL).

## MS Application for Admission

All applicants to a Masters program must apply online.

To apply, visit the Sonoran University Application Portal at: [http://bit.ly/Sonoran\\_App](http://bit.ly/Sonoran_App)

Prospective students who wish to enter a master's degree program in the 2022-2023 academic year must complete and submit the below requirements, in addition to specific program admission requirements prior to matriculation:

1. 4-year Baccalaureate degree or equivalent (contact admissions department for requirements). Total postsecondary coursework must be completed at an accredited or candidate college or university. Within the U.S., accreditation must be recognized by the U.S. Department of Education (non-U.S. residents see International Applicants for more information).
2. Completed application. The admissions application requires submission of:
  - a. Completed application through [Sonoran University Application Portal](#)
  - b. Non-refundable application fee (see Tuition and Fees)
  - c. Letter of intent / personal statement
  - d. Resume or curriculum vitae
  - e. Official transcripts from an accredited or candidate college or university where the highest degree was earned. Within the U.S., accreditation must be recognized by the U.S. Department of Education. U.S. Veterans must also submit military training transcripts. Additional transcripts may be requested on a case-by-case basis.

- f. A minimum cumulative grade point average (GPA) of 2.75 on a 4.0 scale is preferred. However, Sonoran University uses a holistic admissions process, and all applicants with a GPA below 2.75 are encouraged to apply to be considered on a case-by-case basis.

## Additional MSCN Admissions Requirements

1. Students may submit optional letters of recommendation if they wish to strengthen their application.
2. A video conference interview may be required at the discretion of the Admissions Committee or dean.

## Additional MSNBL Admission Requirements

1. Two professional letters of recommendation
2. Early career candidates must also submit a letter of recommendation from their current employer.
3. In-person interview (qualified applicants selected for an interview will be contacted by the Admissions Office)

## International Applicants

International applicants must also satisfy these additional application requirements:

1. International transcript evaluation completed for highest degree earned in a foreign country
2. Sonoran University reserves the right to require international applicants whose first language is not English to provide an official English Language Test report (IELTS or TOEFL preferred). Sonoran University requires a minimum score of 80 on the Internet-based test or IELTS Band 6.5
3. Transcripts from international institutions must be translated and evaluated by a NACES or AICE member transcript evaluation service. Fees for this service are the responsibility of the applicant. The applicant must request a course-by-course and degree evaluation. The transcript evaluation service must mail the official report and transcripts utilized directly to the Sonoran University Admissions Office. These documents must be received before an evaluation of the applicant's file can begin. Additional coursework materials, such as catalogs, course descriptions, and syllabi, if requested, must be translated into English by a professional service
4. International applicants admitted to Sonoran University's Executive MSNBL program must be prepared to apply for and obtain an F1 Visa to attend the on-site immersive component of the program in the United States. (See F1 Visa Information).

Following receipt of all required materials and fees (see Application for Admission), the Admissions Committee will review the application and render an admission decision.

## Post-admit MS Enrollment Requirements

Students admitted to an MS program must satisfy the following enrollment requirements prior to matriculation:

1. Successful completion of Sonoran University's online safety and training courses.
2. Transfer Credit Evaluation (if applicable) - Students admitted to an MS program who have completed graduate-level coursework or have graduated from a domestic or foreign accredited graduate school or program may apply for transfer credit. To comply with VA requirements, all U.S. veterans with any graduate-level course work must be evaluated for potential transfer credit (See VA Benefits for more information). Transfer credit will be determined during the admissions process and will not be considered after matriculation (see Transfer Credit Policy.)
3. Technology Requirements - Laptop and reliable high-speed internet for use in completing coursework. For a complete listing of Sonoran University technical requirements, please visit: [techcheck.sonoran.edu](http://techcheck.sonoran.edu).

## US Immigration and Customs Enforcement (SEVIS) Requirements

Sonoran University's MSNBL program is seeking approval by the U.S. Immigration and Customs Enforcement (SEVIS) to enroll international students on an F1 Visa. Sonoran University's International Student Services are handled by the Vice President of Student Affairs and Dean of Students' offices. International student resources can be found on MySonoran. International applicants must submit a Financial Guarantee Form and provide proof of sufficient financial resources to the Admissions Office to cover anticipated costs of study for the duration of their on-site immersive component of the program. The Admissions Office will issue a Form I-20 to be used by the applicant to obtain a student visa only after admission to qualifying Sonoran University programs and enrollment in the program. This request must be received no less than 60 days prior to planned on-site immersive component of the program. Anticipated costs of study include travel, tuition, school fees, books, other study expenses, and all living expenses for the student (and dependents, if applicable) for the on-site component of the program only. All payments to Sonoran University must be made in U.S. dollars. International students must maintain full-time enrollment at

all times unless otherwise following the articulated program of study. All exceptions require approval from the Dean of Students. Prospective students with questions should contact the Admissions Office at [admissions@Sonoran.edu](mailto:admissions@Sonoran.edu).

## Concurrent Enrollment for MS students

Sonoran University offers a pathway that allows current MS students to complete the requirements for both MS degree programs (MSCN and MSNBL) concurrently. This creates an opportunity for our MS students to graduate with the MSCN degree and the MSNBL degree. Students should contact the Admissions Office for more information. Students may apply for admission into both MS Nutrition programs at the same time, or students already enrolled in Sonoran University's MSCN program are eligible to apply through the Admissions Office as early as quarter 1 for admission to the MSNBL program and begin the MSNBL program as early as quarter 2 of the MSCN program. Students already enrolled in the MSNBL program are eligible to apply through the Admissions Office as early as quarter 1 for admission to the MSCN program and begin the MSCN program as early as quarter 3 of their MSNBL program.

To be eligible for concurrent enrollment, a separate application is required for each degree program and students must meet admissions requirements for both programs. Students admitted into both the MSCN and MSNBL program will be charged the lower of the two credit rates.

Once an MS student is admitted to their secondary MS degree program, the following pre-matriculation concurrent enrollment requirements must be met.

# MS Admissions

## Concurrent Enrollment Eligibility Requirements (CEER) for MS students

Once admitted, concurrently enrolled students must continue to meet all concurrent enrollment requirements outlined within the institutional policies section of the catalog and maintain satisfactory academic progress in each program.

1. Only select, predefined common coursework can be shared across programs.
2. Registration in both programs will be required each quarter,
3. Leaves of Absence LOA may apply to both programs.
4. Graduate credit transferred from another academic institution may only be applied to one program. The maximum time for completion of each degree requirement applies to each degree individually.
5. Since MSNBL program courses are only offered once per year, student requesting a special schedule to reduce their workload are advised to continue their MSNBL courses.

# MS Academic Departments

## MS Academic Departments

### College of Nutrition Division

Division Director: Vacant

#### Department of Clinical Nutrition

The courses in the Department of Clinical Nutrition prepare students for success as practitioners of clinical nutrition by emphasizing the relationship between nutrition and human health and disease. Based on the recognition that diet is a critical foundation for health, the courses incorporate evidence-based training in dietary and health assessment, individualized nutrient requirements, nutrigenomics, therapeutic dietary protocols, supporting lifestyle/behavioral change, and practice management. Critical analyses of the current evidence for nutritional and supplemental interventions are emphasized, as are practical applications of didactic training through a teaching kitchen lab and an unparalleled Virtual Health Center experience.

#### Department of Nutritional Sciences

The courses in the Department of Nutritional Sciences focus on the physical and biological sciences as a basis for understanding the role of food and nutrients in human health and disease. The multidisciplinary courses incorporate training in clinical biochemistry, physiology, pathophysiology, microbiomics, nutrients, botanicals, and therapeutic dietary patterns. Emphasis is placed upon understanding the body's metabolic pathways for macronutrients and micronutrients; the use of food, nutrients, and botanicals in health and disease; and the responsible use of dietary and herbal supplements. Critical analyses of the current evidence for nutritional and supplemental interventions are emphasized, and self-care practices are used both to apply didactic learning and to promote personal sustainability.

#### Department of Nutrition Business Leadership

The courses in the Department of Nutrition Business Leadership prepare students for success as a leader in the natural products industry. The multidisciplinary courses incorporate training in nutrition business fundamentals including supply chain (ingredient procurement, product manufacturing, regulations, sales, and marketing), leadership, finance, and management—all specific to the multi-billion-dollar natural foods and dietary supplement industry. The courses emphasize critical thinking, real-life problem solving, sustainability, corporate social

responsibility, and effective written and verbal communication. Students will gain leadership qualities, knowledge, and skills unique to the natural products industry.



# MSCN Program Information

## Master of Science in Clinical Nutrition (MSCN) Program

The Master of Science in Clinical Nutrition (MSCN) degree program transforms students who are passionate about nutrition into leaders and healers in the field of clinical nutrition. Students gain the professional knowledge, skills, and behaviors necessary to develop and implement effective and evidence-based nutrition-related services to support individual and public health. The innovative and 100% online curriculum has been developed with input from experts and thought leaders in the field of nutrition. The MSCN trains students in nutritional sciences, self-care, whole food nutrition, and the responsible use of dietary supplements while also covering emerging topics such as nutrigenomics and microbiomics. Additionally, the program includes a novel Virtual Health Center Experience where students practice applying new skills and knowledge safely in a virtual training environment. Graduates will be prepared for success in private clinical practice or to be employed in integrative practices, community health, or corporate settings. The program also introduces students to innovative ways to leverage their training from developing a telemedicine practice to becoming an entrepreneur in the multi-billion-dollar natural foods and dietary supplement industry. In addition to their MSCN degree, opportunities to earn industry-specific certifications are embedded within the curriculum to help students increase their competence and further distinguish themselves in their field.

### Program Mission

To educate and inspire the next generation of leaders and practitioners in the field of clinical nutrition to use evidence-based practices to safely, ethically, and effectively enhance the health and well-being of the people and communities they serve.

### Scope of Practice

Requirements for the practice of nutrition vary from state to state (and country to country), with a wide range of certification types available. Currently, the state of Arizona has no regulation for Dietetics and Nutrition practice. There is currently no licensure law in this state outlining restrictions and/or regulations for the field of nutrition. Graduates of the MSCN program may wish to work as clinicians in private or integrative practice settings, while others may wish to work as consultants, writers, educators, or business leaders in the food, supplement, or natural products industry. Others may opt to go on to earn a PhD or a clinical doctoral degree. The MSCN program may also

supplements students' existing clinical training/credentials with expertise and an advanced degree in nutrition.

According to the American Nutrition Association, as of June 2022, eleven states require a Registered Dietitian (RD) credential to practice and be licensed / registered to practice nutrition and currently do not offer a pathway to licensure for non-dietitian nutritionists. Four states require licensing to perform individualized nutrition counseling and provide a pathway to licensure for Certified Nutrition Specialists (CNS)s, RDs, and other advanced nutritionists. Thirty-five states allow the practice of individualized nutrition counseling without licensure, though some of these states offer licensing or state certification to RDs, CNSs, and other advanced nutritionists to perform medical nutrition therapy. For current updates on state laws, we recommend visiting the American Nutrition Association's website at <https://theana.org/advocate>.

### Certification

Sonoran University's MSCN program has been developed to meet the eligibility requirements of several national board certifications, most notably the Certified Nutrition Specialist (CNS). Before qualifying for CNS certification, the Board for Certification of Nutrition Specialists (BCNS) requires a graduate degree in the field of nutrition from a regionally accredited university, specific coursework, a passing grade on the CNS examination, and 1,000 hours of Supervised Practice Experience (SPE). Sonoran University's MSCN program fulfills the didactic requirements to sit for the CNS certification exam offered through the BCNS. The MSCN's Virtual Health Center Experience and Virtual Grand Rounds have also been vetted by the BCNS and approved for CNS candidates to earn 349 SPE hours (250 hours observational; 99 hours direct) and meet required competencies for the SPE. Sonoran University also offer a post graduate self-paced, tele-health based SPE Program to support graduates in meeting the remaining SPE hours. When candidates apply for their CNS credential, the BCNS reviews each candidate individually, including current course descriptions, transcripts, and experience to determine eligibility. To learn more about becoming a CNS, visit [www.nutritionspecialists.org](http://www.nutritionspecialists.org).

The CNS credential is the most frequent, non-RD credential recognized in state nutrition regulations.

The CNS is:

- The only non-dietetics credential and examination widely named in state nutrition licensure laws
- Listed by the U.S. Government's Department of Labor as an advanced nutrition credential in the definition of the "Dietetics and Nutritionists" profession in its Occupational Outlook Handbook

# MSCN Program Information

- Listed by the Centers for Medicare and Medicaid as among those potentially eligible to order therapeutic diets in hospitals
- Fully accredited by the National Commission for Certifying Agencies (NCCA)

Private professional associations awarding nutrition credentials currently recognized by the National Commission for Certifying Agencies include:

- Board for Certification of Nutrition Specialists (BCNS)
- American Clinical Board of Nutrition (ACBN)
- Commission on Dietetic Registration (CDR)

Both BCNS and CDR are recognized by the U.S. Bureau of Labor Statistics in its Occupational Handbook definition of Dietitians and Nutritionists.

Since certifying organizations may change eligibility requirements, students are advised to contact the appropriate board with any questions and to verify eligibility. Students are advised to also review licensing requirements by state for the most up-to-date information.

## Program Learning Outcomes

At the conclusion of the MSCN program, graduates will be able to:

1. Utilize knowledge of nutritional sciences to describe the relationship between nutrients and human health and disease.
2. Apply clinical nutrition knowledge, skills, attitudes, and practices to support effective and evidenced-based care of clients.
3. Apply critical thinking and analytical skills in the review of nutrition literature and in the nutritional evaluation and management of clients.
4. Demonstrate professional leadership and communication skills to cultivate collaboration and effective outcomes in the practice of clinical nutrition.
5. Demonstrate ethics and professionalism in client care, in practice management, and in interactions with all other professionals.
6. Utilize skills for scholarship and lifelong learning to remain current in the field of clinical nutrition.

# MSCN Academic Policies & Coursework

## MSCN Academic Policies

### Satisfactory Academic Progress - Completion

The MSCN program is designed to be completed in seven academic quarters. Students who deviate from the standard academic program will extend the length of the program. Satisfactory academic progress in the MSCN program is defined as passing all program requirements within two (2.0) times the length of the longest published program in which they are enrolled, from initial date of matriculation including any and all leaves of absence and periods of withdrawal followed by re-activation. Generally, this is three and a half years.

Credits transferred from an approved institution count toward the minimum academic requirements to be completed at the end of each academic year (see Minimum Academic Requirements) and count toward the maximum completion time for financial aid. Students must make satisfactory progress toward the completion of their degree at Sonoran University to be eligible for most financial aid programs.

The Satisfactory Academic Progress Policy for the MSCN program includes a cumulative GPA of 3.0 or higher, minimum academic credits earned per term, and total completion time.

Students who fail to make satisfactory academic progress for their prescribed program of study in any term will be given an academic warning and will be placed on academic probation.

### Cumulative GPA Requirement

Students in the MSCN program must maintain a cumulative GPA of at least 3.0.

### Minimum Academic Requirements

The following table illustrates the minimum number of cumulative credit hours required to be completed (total credits earned) at the end of each academic year of the MSCN program

Academic Year	Total Credits Earned
1	13
2	27

## MSCN Academic Coursework

The MSCN program at Sonoran University is a cohort-based, online distance education program that follows a prescribed track. All academic credit is computed in quarter hours (see Credit Equivalence). All students are guided by the curriculum as outlined in their prescribed program of study. Students are pre-registered for all courses. Students may not deviate from their prescribed program of study. Sonoran University reserves the right to make curriculum changes that are applicable to all students, if necessary.

### Course Format / Credit Requirements

The MSCN program consists of 39 didactic credits (468 didactic contact hours) and 15 clinical credits (180 clinical hours). The format of the program is 100% online.

Full-time enrollment is defined as being enrolled for a minimum of 4 credits. Part-time enrollment is defined as being enrolled for a minimum of 2 credits but less than 4 credits.

### Credit Equivalence

Courses are reported in quarter credit hours according to the following values:

Didactic	1 credit = 12 contact hours per quarter
Laboratory	1 credit = 12 contact hours per quarter
Clinical	1 credit = 12 contact hours per quarter

### Program Length / Completion Timeframe

The MSCN program is designed to be completed in less than two academic years, or seven academic quarters. Students are expected to complete the MSCN program within 14 academic quarters, not to exceed three and a half years from initial date of matriculation, including any and all leaves of absence and periods of withdrawal.

If a student stays on track with the program, taking all courses as they are offered in sequence, students can expect to graduate within 7 consecutive quarters, or just under two calendar years.

# MSCN Program of Study

## MSCN Program of Study

### Program of Study - Year One

Quarter 1		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
NUTC 5110	Nutritional Assessment I: History, Anthropometrics and Energy (weeks 1-6)			24.0	24.0	2.0
NUTC 5120	Gastrointestinal Physiology (weeks 1-6)			24.0	24.0	2.0
NUTC 5130	Nutrition Across the Lifecycle I: Adolescence, Adulthood and Older Age (weeks 7-12)			24.0	24.0	2.0
NUTC 5140	Gastrointestinal Pathophysiology (weeks 7-12)			24.0	24.0	2.0
Year 1 Quarter 1 Totals		0.0	0.0	96.0	96.0	8.0

Quarter 2		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
NUTC 5211	Clinical Biochemistry I: Macronutrients, Human Metabolism, and Energy (weeks 1-6)			36.0	36.0	3.0
NUTC 5221	Self-Care: Role-Modeling Health Behaviors (weeks 1-6)			24.0	24.0	2.0
NUTC 5230	Clinical Biochemistry II: Vitamins and Minerals (weeks 7-12)			24.0	24.0	2.0
NUTC 5240	Botanicals and Phytonutrients (weeks 7-12)			24.0	24.0	2.0
Year 1 Quarter 2 Totals		0.0	0.0	108.0	108.0	9.0

Quarter 3		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
NUTC 5310	Dietary and Supplement Guidelines, Policies, And Safety (weeks 1-6)			24.0	24.0	2.0
NUTC 5320	Evidence Informed Practice and Decision Making (weeks 1-6)			12.0	12.0	1.0
NUTC 5330	Nutrition Across the Lifecycle II: Preconception, Pregnancy, Lactation, Infancy, and Childhood (weeks 7-12)			24.0	24.0	2.0
NUTC 5340	Dietary Patterns for Health Promotion (weeks 7-12)			24.0	24.0	2.0
Year 1 Quarter 3 Totals		0.0	0.0	84.0	84.0	7.0





# MSCN Course Descriptions

## MSCN Course Descriptions

All prerequisites presume adherence to the student's Program of Study.

*(Listed in alphabetical order)*

### *NUTC 5110 Nutritional Assessment I History, Anthropometrics and Energy*

(Didactic credits: 2)

This course provides instruction on how to conduct a nutrition-focused history and physical examination and how to interpret the findings. Students also learn how to determine a client's energy needs and methods for determining an individual's dietary intake based on caloric values and macro- and micronutrient balance.

*Prerequisite: Admission into program*

### *NUTC 5120 Gastrointestinal Physiology*

(Didactic credits: 2)

This course explores normal human physiology with an emphasis on physiology of the gastrointestinal tract. Students will learn mechanisms and regulation of motor, secretory, digestive, and absorptive functions of the gastrointestinal tract and how it impacts human health. The course also introduces students to microbiomics and the role and application of prebiotics and probiotics in health and disease.

*Prerequisite: Admission into program*

### *NUTC 5130 Nutrition across the Lifecycle I: Adolescence, Adulthood, and Older Age*

(Didactic credits: 2)

This course explores nutrition across the human lifecycle from adolescence and adulthood through older age. Students learn the primary dietary issues, assessment strategies, and dietary recommendations to support health promotion and disease prevention for each of these lifecycle stages.

*Prerequisite: Admission into program*

### *NUTC 5140 Gastrointestinal Pathophysiology*

(Didactic credits: 2)

This course provides students with essential medical knowledge and a broad understanding of human disease with a focus on pathophysiology of the gastrointestinal tract. Students will also build upon their understanding of microbiomics and the role and application of prebiotics and probiotics in health and disease.

*Prerequisite: Admission into program*

### *NUTC 5211 Clinical Biochemistry I: Macronutrients, Human Metabolism, and Energy*

(Didactic credits: 3)

This course explores key concepts in human metabolism and energy production by focusing on the structure, function, and metabolism of carbohydrates, lipids, proteins, nucleotides, water, and alcohol. Students learn about the digestion and absorption of these compounds and how to identify signs and symptoms of insufficiency, deficiency, and excess for application in clinical practice.

*Prerequisite: NUTC 5120, NUTC 5140*

### *NUTC 5221 Self-care: Role-modeling Health Behaviors*

(Didactic credits: 2)

This course improves self-care in students to promote personal sustainability and prevent burnout for their own well-being as well as for the benefit of their future clients and team members. Through a combination of didactic and experiential learning, students gain an understanding of the importance and impact of self-care practices. An emphasis will be placed on hands-on, practical approaches for making sustainable changes in diet, exercise, stress management, and sleep hygiene to reduce risk of disease and promote health. As students are empowered with an enhanced capacity for self-care, it is expected that they will be more inclined, and better equipped, to implement these strategies when counseling future clients and/or when leading teams.

*Prerequisite: Admission into program*

### *NUTC 5230 Clinical Biochemistry II: Vitamins and Minerals*

(Didactic credits: 2)

This course explores key concepts in human metabolism and energy production by focusing upon the structure, function, and metabolism of micronutrients: vitamins, macrominerals, and trace / microminerals. Students learn about the digestion and absorption of these nutrients and how to identify signs and symptoms of insufficiency, deficiency, and excess for application in clinical practice.

*Prerequisite: NUTC 5120, NUTC 5140*

### *NUTC 5240 Botanicals and Phytonutrients*

(Didactic credits: 2)

This course introduces students to the biochemical actions, physiologic effects, and clinical application of plants, phytochemicals, and zoochemicals. Students will learn the

# MSCN Course Descriptions

historical and traditional uses of common botanicals and modern, evidenced-based applications. Pharmacognosy, clinical use, indications, dosage, formulations, and safety considerations will be explored.

*Prerequisite: NUTC 5120, NUTC 5140*

## *NUTC 5310 Dietary and Supplement Guidelines, Policies, and Safety*

(Didactic credits: 2)

This course explores the roles of government agencies in regulating the manufacturing, labeling, and advertising of individual foods and dietary supplements and in regulating overall food systems and the food supply. Students also learn about national and international dietary guidelines, potential sources of food contamination, and best practices associated with the safe handling of food.

*Prerequisite: Admission into program*

## *NUTC 5320 Evidence Informed Practice and Decision Making*

(Didactic credits: 1)

This course develops students' information literacy skills by providing instruction on how to critically read, interpret, and apply scientific literature with a specific emphasis on food and nutrition research. Students learn about the hierarchy of evidence, research methodologies, ethics, and data analysis. Upon completion of this course, students will be able to evaluate research findings and apply findings to inform therapies and decisions and to substantiate claims.

*Prerequisite: Admission into program*

## *NUTC 5330 Nutrition across the Lifecycle II: Preconception, Pregnancy, Lactation, Infancy, and Childhood*

(Didactic credits: 2)

This course explores nutrition across the human lifecycle through preconception, pregnancy, lactation, infancy, and childhood. Students learn the primary dietary issues, assessment strategies, and dietary recommendations to support health promotion and disease prevention for each of these lifecycle stages.

*Prerequisite: Admission into program*

## *NUTC 5340 Dietary Patterns for Health Promotion*

(Didactic credits: 2)

This course provides instruction on evidence-based dietary patterns to support health and prevent disease. Positive and negative aspects of popular diets (e.g. Mediterranean diet, glycemic index, ketogenic diet, vegan diet, vegetarian diet, paleo diet) and controversial topics in nutrition will be examined. Students will learn how to formulate dietary recommendations for specific individuals to address health-

related benefits or concerns and develop a working knowledge of dietary belief systems of commonly encountered ethnic cultures.

*Prerequisite: NUTC 5140*

## *NUTC 5410 Nutritional Assessment II: Laboratory*

(Lab credits: 2)

This course provides instruction in interpretation of biochemical and laboratory assessments, both standard and functional, to determine nutrient status and metabolic imbalances. Ethical use of select laboratory testing methods will also be explored. Students will learn how to correlate symptoms and lab results to inform recommendations for nutrition interventions.

*Prerequisite: NUTC 5110, NUTC 5320*

## *NUTC 5420 Nutrigenomics and Personalized Nutrition*

(Didactic credits: 2)

This course provides students with foundational knowledge of nutritional genomics and guidance on how to apply nutrigenomics when developing a personalized nutrition plan. Students will explore current evidence on clinical applications of genetics, epigenetics, and nutrigenomics and the impact of personalized genomics on nutritional biochemistry and human physiology. Upon successful completion of the course, students will receive a Certificate in the Principles of Nutritional Genomics from the American Nutrition Association.

*Prerequisite: NUTC 5320, NUTC 5211, NUTC 5230*

## *NUTC 5430 Clinical Applications I: Health Promotion and Disease Prevention*

(Clinical credits: 3)

This course is an introduction to the virtual health center experience. Students will learn about the scope of practice of clinical nutrition, related regulations, and how to develop effective nutrition care plans and interventions for clients. Clinical cases used will focus on health promotion, disease prevention, and supporting behavioral change at each stage of human development. Students will learn how to monitor

client progress and use effective counseling and behavioral modification skills to help motivate and support behavioral change in clients and enhance clinical outcomes.

*Prerequisite: NUTC 5110, NUTC 5120, NUTC 5130, NUTC 5140, NUTC 5211, NUTC 5230, NUTC 5320, NUTC 5330, NUTC 5340, NUTC 5410*

# MSCN Course Descriptions

## *NUTC 5440 Teaching Kitchen Laboratory*

(Lab credits: 1)

The teaching kitchen laboratory helps students translate evidenced-based nutritional sciences into practice. Specifically, it allows for hands-on learning of how to prepare foods that promote health and support management of disease in a manner that is cost effective, easy, quick, and flavorful. This helps students provide specific dietary counseling to future clients and/or become a role model of practicing smart nutrition and self-care. The goal is to improve students' confidence and competence in providing evidence-based nutritional advice to patients to support sustainable dietary and lifestyle change.

*Prerequisite: Admission into program*

## *NUTC 5550 Clinical Applications II: Chronic Disease*

(Clinical credits: 4)

This course is a virtual health center experience focused on assessment and nutritional management of chronic, noncommunicable disease. Students will learn how to apply dietary and nutraceutical interventions for prevention, modulation, and management of individuals with chronic disorders including obesity, cardiovascular disease, insulin resistance, metabolic syndrome, diabetes, autoimmune disorders, osteoporosis, gastrointestinal disorders, and food allergies, sensitivities, and intolerances.

*Prerequisite: NUTC 5430. Co-requisite: NUTC 5560*

## *NUTC 5560 Nutritional Interventions for Chronic Disease*

(Didactic credits: 4)

Students will explore the pathophysiology of common chronic diseases and learn how to apply dietary and nutraceutical interventions for prevention, modulation, and management. Conditions covered in this course include obesity, cardiovascular disease, insulin resistance, metabolic syndrome, diabetes, autoimmune disorders, osteoporosis, gastrointestinal disorders, and food allergies, sensitivities, and intolerances.

*Prerequisite: NUTC 5430. Co-requisite: NUTC 5550*

## *NUTC 5650 Clinical Applications III: Complex Systemic Disorders*

(Clinical credits: 4)

This course is a virtual health center experience focused on assessment and nutritional management of complex systemic disorders. Students will learn how to apply dietary and nutraceutical interventions (as indicated) for prevention, modulation, and/or management of individuals with complex systemic disorders including eating disorders; renal, hepatic, pulmonary, cognitive/neurodegenerative disorders; psychological and psychiatric disorders;

hormonal and endocrine disorders; and hematologic disorders.

*Prerequisite NUTC 5430. Co-requisite: NUTC 5660*

## *NUTC 5660 Nutritional Interventions for Complex Systemic Disorders*

(Didactic credits: 4)

Students will explore the pathophysiology of select complex systemic disorders and learn how to apply dietary and nutraceutical interventions for prevention, modulation, and management. Conditions covered in this course include eating disorders; renal, hepatic, pulmonary, cognitive/neurodegenerative disorders; psychological and psychiatric disorders; hormonal and endocrine disorders; and hematologic disorders.

*Prerequisite: NUTC 5430. Co-requisite: NUTC 5650*

## *NUTC 5750 Clinical Applications IV: Co-morbidities and Complex Medical Disorders*

(Clinical credits: 4)

This course is a virtual health center experience focused on the nutritional management of co-morbidities and complex medical disorders. Students will learn about nutritional therapy in immunocompromised individuals (e.g. cancer, HIV-AIDS, and tuberculosis) and nutritional therapy in compromised individuals (e.g., chemotherapy, radiation, dialysis, and surgical procedures).

*Prerequisite: NUTC 5430, NUTC 5550, NUTC 5560, NUTC 5650, NUTC 5660*

## *NUTC 5760 Success Academy*

(Didactic credits: 2)

This course prepares students for success in the business of clinical nutrition from establishing, marketing, and managing a successful clinical practice to monetizing their knowledge in innovative ways. Diverse career paths, regulations, and practice models will be explored including telemedicine.

*Prerequisite: Admission into program.*

# MSNBL Program Information

## Executive Master of Science in Nutrition Business Leadership (MSNBL) Program

Designed for working professionals, the online Executive Master of Science in Nutrition Business Leadership (MSNBL) degree empowers students with essential nutrition and business knowledge and skills that add immediate value to their organizations and careers. The innovative curriculum has been developed with input from global industry experts and thought leaders and equips graduates with current, realistic, and evidenced-based training from both national and international perspectives, and with a focus on personal, environmental, and corporate sustainability. Unlike any other program, the MSNBL trains students in the nutritional sciences, supply/value chain (including ingredient procurement, product manufacturing, regulations, sales, and marketing), and in leadership and management—all specific to the natural foods and dietary supplement industry. Graduates will be prepared to respond to the nutrition industry's need for evidence-based leaders who can have a positive impact on the quadruple bottom line: people, plant, profit, and purpose – and will be ready to successfully start their own ventures or be employed by organizations in key leadership roles.

### Program Mission

To educate and inspire current and future leaders to grow the global natural products industry through evidence-based and sustainable practices that safely, ethically, and effectively enhance the health and well-being of the people and communities they serve.

### Scope of Practice

The MSNBL program prepares students to successfully assume leadership roles in the natural products industry as professional administrators, managers, and executives, or as entrepreneurs. The knowledge, confidence, and skills students gain in this program are also transferable to leadership roles in other industries. There are no specific post-graduate license or certification requirements for students to work in this field.

### Program Learning Outcomes

At the conclusion of the MSNBL program, graduates will be able to:

1. Utilize knowledge of nutritional sciences to describe the relationship between nutrients and human health and disease.
2. Apply functional business knowledge of the global natural products industry to support effective business outcomes and professional success.
3. Demonstrate effective leadership and communication skills to cultivate collaboration and effective outcomes in business.
4. Implement personal, environmental, and corporate sustainability strategies to prevent burn out, cultivate a responsible and purpose-driven organization, and to improve organizational performance.
5. Demonstrate ethics and professionalism in business management, leadership, decision-making, and in interactions with all clients and professionals.
6. Utilize skills for scholarship and lifelong learning to remain current in the natural food and products industry.

# MSNBL Academic Policies & Coursework

## MSNBL Academic Policies

### Satisfactory Academic Progress - Completion

The MSNBL program is designed to be completed in five academic quarters. Students who deviate from the standard academic program will extend the length of the program. Satisfactory academic progress in the MSNBL program is defined as passing all program requirements within two (2) times the length of the longest published program in which they are enrolled, from initial date of matriculation including any and all leaves of absence and periods of withdrawal followed by re-activation. Credits transferred from an approved institution count toward the minimum academic requirements to be completed at the end of each academic year (see Minimum Academic Requirements) and count toward the maximum completion time for financial aid. Students must make satisfactory progress toward the completion of their degree at Sonoran University to be eligible for most financial aid programs.

The Satisfactory Academic Progress Policy for the MSNBL program includes a cumulative GPA of 3.0 or higher, minimum academic credits earned per term, and total completion time.

Students who fail to make satisfactory academic progress for their prescribed program of study in any term will be given an academic warning and will be placed on academic probation.

### Cumulative GPA Requirement

Students in the MSNBL program must maintain a cumulative GPA of at least 3.0.

### Minimum Academic Requirements

The following table illustrates the minimum number of cumulative credit hours required to be completed (credit hours earned) at the end of each academic year of the MSNBL program

Academic Year	Total Credits Earned
1	13
2	26

## MSNBL Academic Coursework

The MSNBL program at Sonoran University is a cohort-based, online distance education program that follows a prescribed track, and includes one weekend-long in-person residential experience. All academic credit is computed in quarter hours (see Credit Equivalence). All students are guided by the curriculum as outlined in their prescribed program of study. Students are automatically registered for core courses (not selectives). Registration for MSNBL selective courses is available to students online 24/7 during the open registration period. Registration dates for each program of study are published in the academic calendar unless posted otherwise. Registration is the responsibility of the student. Students may not deviate from their prescribed program of study. Sonoran University reserves the right to make curriculum changes that are applicable to all students, if necessary.

### Selectives

Sonoran University offers selectives, or required electives, in the MSNBL degree program as part of the core curriculum. Selectives are advertised prior to registration, and an enrollment of a minimum number of students may be required before some selectives will be offered (see Adding and Dropping Courses for prescribed program of study). Students will register for selectives online during the published registration timeframe. For a list of potential selectives, please see MSNBL Selective Course Descriptions.

### Course Format / Requirements

The MSNBL program consists of 39 didactic credits (468 didactic contact hours). The format of the program is online with one course delivered in-person as a residential experience at the Sonoran University campus in Tempe, AZ.

Full-time enrollment is defined as being enrolled for a minimum of 4 credits. Part-time enrollment is defined as being enrolled for a minimum of 2 credits but less than 4 credits.



# MSNBL Academic Policies & Coursework

## Credit Equivalence

Courses are reported in quarter credit hours according to the following values:

Didactic            1 credit = 12 contact hours per quarter

## Program Length / Completion Timeframe

The MSNBL program is designed to be completed in less than two academic years, or five academic quarters. Students are expected to complete the MSNBL program within 10 academic quarters, not to exceed two and a half years from initial date of matriculation, including any and all leaves of absence and periods of withdrawal.

If a student stays on track with the program, taking all courses as they are offered in sequence, students can expect to graduate within 5 consecutive quarters, or just over one calendar year.

# MSNBL Program of Study

## Program of Study - Year One

Quarter 1		Contact Hours			Total Contact Hours	Total Credit Hours
		Clinic	Lab	Didactic		
Course #	Course Title					
NUTB 5110	Leadership Development (weeks 1-6)			24.0	24.0	2.0
NUTB 5120	Gastrointestinal Physiology (weeks 1-6)			24.0	24.0	2.0
NUTB 5130	Organizational Development (weeks 7-12)			24.0	24.0	2.0
NUTB 5140	Gastrointestinal Pathophysiology (weeks 7-12)			24.0	24.0	2.0
<b>Year 1 Quarter 1 Totals</b>		<b>0.0</b>	<b>0.0</b>	<b>96.0</b>	<b>96.0</b>	<b>8.0</b>

Quarter 2		Contact Hours			Total Contact Hours	Total Credit Hours
		Clinic	Lab	Didactic		
Course #	Course Title					
NUTB 5210	Clinical Biochemistry I: Macronutrients, Human Metabolism, And Energy (weeks 1-6)			36.0	36.0	3.0
NUTB 5220	Self-Care: Role-Modeling Health Behaviors (weeks 1-6)			24.0	24.0	2.0
NUTB 5230	Clinical Biochemistry II: Vitamins and Minerals (weeks 7-12)			24.0	24.0	2.0
NUTB 5240	Botanicals and Phytonutrients (weeks 7-12)			24.0	24.0	2.0
<b>Year 1 Quarter 2 Totals</b>		<b>0.0</b>	<b>0.0</b>	<b>108.0</b>	<b>108.0</b>	<b>9.0</b>

Quarter 3		Contact Hours			Total Contact Hours	Total Credit Hours
		Clinic	Lab	Didactic		
Course #	Course Title					
NUTB 5311	Dietary and Supplement Guidelines, Policies, And Safety (weeks 1-6)			24.0	24.0	2.0
NUTB 5321	Evidence Informed Practice and Decision Making (weeks 1-6)			12.0	12.0	1.0
NUTB 5330	The Food and Supplement Industry: Policies, And Regulations (weeks 7-12)			24.0	24.0	2.0
NUTB 5340	Dietary Patterns for Health Promotion (weeks 7-12)			24.0	24.0	2.0
<b>Year 1 Quarter 3 Totals</b>		<b>0.0</b>	<b>0.0</b>	<b>84.0</b>	<b>84.0</b>	<b>7.0</b>

# MSNBL Program of Study

Quarter 4		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
NUTB 5430	Negotiation and influence (weeks 7-12)			24.0	24.0	2.0
NUTB 5450	Strategic Sales and Marketing (weeks 1-12)			48.0	48.0	4.0
Variable	Selective Course(s) (5 credits maximum weeks 1-12)			24.0	24.0	2.0
<b>Year 2 Quarter 4 Totals</b>		<b>0.0</b>	<b>0.0</b>	<b>96.0</b>	<b>96.0</b>	<b>8.0</b>
Grand Totals - Year 1		0.0	0.0	384	384	32

## Program of Study - Year Two

Quarter 5		Contact Hours			Total Contact Hours	Total Credit Hours
Course #	Course Title	Clinic	Lab	Didactic		
NUTB 5500	Executive Leadership Experience (weeks 7-10 with weekend intensive)			12.0	12.0	1.0
NUTB 5550	Innovation: New Product Development and Manufacturing (weeks 5-10)			24.0	24.0	2.0
NUTB 5520	Supply Chain Management (weeks 1-6)			24.0	24.0	2.0
NUTB 5511	Sustainability and Manufacturing Corporate Social Responsibility (weeks 1-4)			24.0	24.0	2.0
<b>Year 2 Quarter 5 Totals</b>		<b>0.0</b>	<b>0.0</b>	<b>84.0</b>	<b>84.0</b>	<b>7.0</b>
Grand Totals - Year 2		0.0	0.0	84	84	7

Grand Totals	Clinic	Lab	Didactic	Total
<b>Credit Hours</b>	-	-	39.0	39.0
<b>Contact Hours</b>	-	-	468.0	468.0

\* To personalize their curriculum, MSNBL students are required to take a minimum of 2 selective credits during Quarter 4 of the MSNBL program but may take up to 5.5 selective credits as part of their required program of study.

# MSNBL Program of Study

## MSNBL Course Descriptions

All prerequisites presume adherence to the student's Program of Study.

*(Listed in alphabetical order)*

### *NUTB 5110 Leadership Development*

(Didactic credits: 2)

This course helps students cultivate essential leadership skills and equips them with the knowledge, skills, behaviors, and self-awareness that will allow them to assume greater leadership responsibility, improve corporate performance, and drive competitive advantage.

*Prerequisites: Admission into program*

### *NUTB 5120 Gastrointestinal Physiology*

(Didactic credits: 2)

This course explores normal human physiology with an emphasis on physiology of the gastrointestinal tract. Students will learn mechanisms and regulation of motor, secretory, digestive, and absorptive functions of the gastrointestinal tract and how it impacts human health. The course also introduces students to microbiomics and the role and application of prebiotics and probiotics in health and disease.

*Prerequisite: Admission into program*

### *NUTB 5130 Organizational Development*

(Didactic credits: 2)

This course cultivates an understanding of human behavior in an organizational setting and helps students gain insight into strategies and methods that strengthen team performance, organizational dynamics, and organizational culture.

*Prerequisites: Admission into program*

### *NUTB 5140 Gastrointestinal Pathophysiology*

(Didactic credits: 2)

This course provides students with essential medical knowledge and a broad understanding of human disease with a focus on pathophysiology of the gastrointestinal tract. Students will also build upon their understanding of microbiomics and the role and application of prebiotics and probiotics in health and disease.

*Prerequisite: Admission into program*

### *NUTB 5210 Clinical Biochemistry I: Macronutrients, Human Metabolism, and Energy*

(Didactic credits: 3)

This course explores key concepts in human metabolism and energy production by focusing on the structure,

function, and metabolism of carbohydrates, lipids, proteins, nucleotides, water, and alcohol. Students learn about the digestion and absorption of these compounds and how to identify signs and symptoms of insufficiency, deficiency, and excess for application in clinical practice.

*Prerequisites: NUTB 5120, NUTM 5140*

### *NUTB 5220 Self-care: Role-Modeling Health Behaviors*

(Didactic credits: 2)

This course improves self-care in students to promote personal sustainability and prevent burnout for their own well-being as well as for the benefit of their future clients and team members. Through a combination of didactic and experiential learning, students gain an understanding of the importance and impact of self-care practices. An emphasis will be placed on hands-on, practical approaches for making sustainable changes in diet, exercise, stress management,

and sleep hygiene to reduce risk of disease and promote health. As students are empowered with an enhanced capacity for self-care, it is expected that they will be more inclined, and better equipped, to implement these strategies when counseling future clients and/or when leading teams.

*Prerequisite: Admission into program*

### *NUTB 5230 Clinical Biochemistry II: Vitamins and Minerals*

(Didactic credits: 2)

This course explores key concepts in human metabolism and energy production by focusing upon the structure, function, and metabolism of micronutrients: vitamins, macrominerals, and trace microminerals. Students learn about the digestion and absorption of these nutrients and how to identify signs and symptoms of insufficiency, deficiency, and excess for application in clinical practice.

*Prerequisite: NUTB 5120, NUTB 5140*

### *NUTB 5240 Botanicals and Phytonutrients*

(Didactic credits: 2)

This course introduces students to the biochemical actions, physiologic effects, and clinical application of plants, phytochemicals, and zoochemicals. Students will learn the historical and traditional uses of common botanicals and modern, evidenced-based applications. Pharmacognosy, clinical use, indications, dosage, formulations, and safety considerations will be explored.

*Prerequisite: NUTB 5120, NUTB 5140*

# MSNBL Course Descriptions

## *NUTB 5311 Dietary and Supplement Guidelines, Policies, and Safety*

(Didactic credits: 2)

This course explores the roles of government agencies in regulating the manufacturing, labeling, and advertising of individual foods and dietary supplements and in regulating overall food systems and the food supply. Students also learn about national and international dietary guidelines, potential sources of food contamination, and best practices associated with the safe handling of food.

*Prerequisite: Admission into program*

## *NUTB 5321 Evidence Informed Practice and Decision Making*

(Didactic credits: 1)

This course develops students' information literacy skills by providing instruction on how to critically read, interpret, and apply scientific literature with a specific emphasis on food and nutrition research. Students learn about the hierarchy of evidence, research methodologies, ethics, and data analysis. Upon completion of this course, students will be able to evaluate research findings and apply findings to inform therapies and decisions and to substantiate claims.

*Prerequisite: Admission into program*

## *NUTB 5330 The Food and Supplement Industry: Policies and Regulations*

(Didactic credits: 2)

This course will expound upon the information covered in Dietary and supplement guidelines, policies, and safety. Student will gain an in-depth understanding of the natural food/supplement industry policies and regulations including Current Good Manufacturing Practice (CGMP), FDA Food Safety Modernization Act (FSMA), preventive controls, and international standards.

*Prerequisites: NUTB 5210, NUTB 5230*

## *NUTB 5340 Dietary Patterns for Health Promotion*

(Didactic credits: 2)

This course provides instruction on evidence-based dietary patterns to support health and prevent disease. Positive and negative aspects of popular diets (e.g. Mediterranean diet, glycemic index, ketogenic diet, vegan diet, vegetarian diet, paleo diet) and controversial topics in nutrition will be examined. Students will learn how to formulate dietary recommendations for specific individuals to address health-related benefits or concerns and develop a working knowledge of dietary belief systems of commonly encountered ethnic cultures.

*Prerequisite: NUTB 5140*

## *NUTB 5430 Negotiation and Influence*

(Didactic credits: 1)

This course provides instruction on how to affect another individual's opinion, perspective, behavior, and/or actions. Students will learn the distinction between influence and manipulation or coercion. Negotiation strategies that lead to win-win outcomes and that maximize the value of the agreement for all parties will also be explored.

*Prerequisites: Admission into program*

## *NUTB 5450 Strategic Sales and Marketing*

(Didactic credits: 3.5)

This course equips students with effective sales and marketing strategies. Students will learn about regulations regarding marketing claims, consumer behavior, establishing brand value and positioning, and determining appropriate sales channels. Students will also gain insight into how the industry is changing and how to capitalize on change.

*Prerequisites: Admission into program*

## *NUTB 5500 Executive Leadership Experience*

(Didactic credits: 1)

The Executive Leadership Experience allows students to learn from and network with industry experts and fellow classmates during a weekend-long residency at the Sonoran University campus in Tempe, Arizona. This immersive experience brings together distinguished nutrition and business leaders from across the country and solidifies bonds between classmates to create a lifelong professional network. Students will build upon prior learning, gain new insights, and strengthen their ability to think strategically and act decisively.

*Prerequisites: NUTB 5110, NUTB 5130, NUTB 5311, NUTB 5330*

## *NUTB 5510 Innovation: New Product Development and Manufacturing*

(Didactic credits: 2)

This course offers instruction in the basics of formulating products including legal ingredients, safety, efficacy, consistency, raw material cost, sourcing raw materials, testing, quality assurance, documentation, and warehousing. Students learn how to start and manage innovative projects and how to launch and manage their own business or propose new business ideas, and work with cross-functional teams.

*Prerequisites: Admission into program*



# MSNBL Course Descriptions

## *NUTB 5520 Supply Chain Management*

(Didactic credits: 2)

This course provides instruction in supply chain strategy: from raw materials and inventory to finished goods, and from point of origin to point of consumption. Students learn about all aspects of supply chain management including the impact of an organization's culture in driving supply chain success. Upon successful completion of this course, students will be able to effectively manage global end-to-end supply chain activities.

*Prerequisites: Admission into program*

## *NUTB 5530 Sustainability and Corporate Social Responsibility*

(Didactic credits: 2)

This course explores the concept and practice of corporate sustainability and responsibility. Students learn how to cultivate a responsible and purpose-driven institution and how to monetize the model.

*Prerequisites: NUTB 5321*

## MSNBL Selective Course Descriptions

To personalize their curriculum, MSNBL students are required to take a minimum of 2 selective credits but may take up to 5.5 selective credits as part of their required program of study. While MSNBL students are eligible to enroll in more than 5.5 selective credits, federal aid is not available for tuition costs that exceed the maximum 5.5 selective credits. MSNBL students may take preapproved courses from another eligible college of university as selectives. To do so, students must sign a consortium agreement with Sonoran University that will allow them to enroll and earn credit at the partner institution and Sonoran University simultaneously and receive federal financial aid funding for the total combined number of hours/credits taken at both the partner school and Sonoran University. Some selectives may limit enrollment due to course-specific requirements. Some selectives were still in development at time of print; current selection of available selectives are advertised prior to registration. (*Listed in alphabetical order*)

## *NUTB 5910 Stress Management*

(Didactic credits: 2)

This course will allow the student to effectively identify and treat signs and symptoms of stress utilizing stress management principles and practices such as meditation, breathing techniques, and cognitive restructuring techniques. Experiential exercises will build students' own

stress management skills. The course will also provide guidance in how to apply these skills with patients in clinical practice.

*Prerequisites: Admission into program*

## *NUTB 5920 The Human in Nature*

(Didactic credits: 2)

This course will explore the concepts, theories, and research behind the benefits of nature exposure. Pertinent research on health conditions in all populations will be discussed and analyzed. The ultimate intent of this course is to impress upon the student the need for continued exposure to nature and play throughout the human life cycle in school, work, and community settings.

*Prerequisites: Admission into program.*

## *NUTB 5930 Botanical Medicine in the High Desert and Upper Canyons of Sedona*

(Didactic credits: 2)

This hybrid field study course is set in Sedona and the surrounding high desert and upper canyons below the Mogollon Rim. The purpose of this selective is to enhance knowledge and clinical use of plants native and naturalized to this area. A variety of locations and plant zone communities will be visited in order to observe a variety of medicinal plants. Discussion will include ethnobotanical/historical use, plant identification, organoleptics and energetics, primary actions, medicinal use, key constituents, extraction, delivery, dose, and safety issues. Discussions will be infused with personal experiences and clinical examples. Ethical wildcrafting and formulation strategies will be emphasized. A variety of extraction techniques will be demonstrated as well as discussion of best delivery. *Prerequisites: NUTB 5120, NUTB 5140, NUTB 5210, NUTB 5230, NUTB 5240*

## *NUTB 5940 Pharmacognosy & Phytochemistry*

(Didactic 2 credits)

This course is an overview of secondary metabolites found in medicinal plants. This topic will be explored through the major classes of plant constituents in order to understand the activity of plants and offer a framework for the clinical application of botanical medicine. It will cover basic plant chemistry and examine solubility and extraction, variability and synergy, as well as review biosynthetic pathways, absorption, metabolism, standardization, and concentration. The primary focus of the course is on the major categories and subcategories of phytochemicals relevant to botanical medicine and the physiological effects these constituents have on the human body.

*Prerequisites: NUTB 5120, NUTB 5140, NUTB 5210, NUTB 5230, NUTB 5240*

# MSNBL Course Descriptions

## *NUTB 5950 Probiotics from Research to Market*

(Didactic credits: 2)

This course brings students along the supply chain and value chain of probiotics and explores this rapidly evolving field from the perspective of the scientist, the clinician, the manufacturer, and the consumer. Students will gain an understanding of the scientific basis for these products, evidence-based clinical applications, and key regulatory and manufacturing considerations. Instruction will also be provided on the basics from research and development, formulating products, and QA/QC, to manufacturing, labeling, and commercialization.

*Prerequisites: NUTB 5120, NUTB 5140, NUTB 5311, NUTB 5330, NUTB 5321*

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# Administration

## Sonoran University Administration

### Executive Leadership

#### President & Chief Executive Officer

Paul A. Mittman, ND, EdD  
Professor of Naturopathic Medicine; BA, State University of New York at Buffalo, 1978; ND, National University of Natural Medicine, 1985; EdD, University of Pennsylvania, 2009.

#### Vice President of Academic Affairs

H. Garrett Thompson, DC, PhD  
Professor of Biochemistry; BA, Biology, Reed College 1994; PhD, Biochemistry, Loma Linda University, 2000; DC, Southern California University of Health Sciences, Los Angeles College of Chiropractic, 2010.

#### Chief Financial Officer

Edward Podol, MBA  
BS, International Economics, Georgetown University, 1986; MBA, Finance, University of Virginia, 1990

#### Vice President of Student Affairs

Melissa Winquist, MA  
BA, Arizona State University, 1991; MA, Arizona State University, 1994.

### Deans

#### Dean, College of Naturopathic Medicine

Jessica Mitchell, ND  
Assistant Professor of Naturopathic Medicine; BS, Psychobiology, Binghamton University, 2001; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2005.

#### Dean, College of Nutrition

Gena E. Kadar, DC, MS.MEdL, CNS  
Professor of Clinical Nutrition; BA, Humanistic Studies, McGill University, 1998; DC, Southern California University of Health Sciences, 2001, CNS, Board for Certification of Nutrition Specialists, 2007, MS, Medical Education Leadership, University of New England, 2016.

#### Dean of Students

Kenneth Donnelly, MBA  
BS, Marketing, Fordham University, 1985; MBA, University of Connecticut, 1991.

#### Associate Dean of Naturopathic Clinical Education

Joseph W. Vazquez, ND,MS  
BS, Austin Paey State University, 2008; ND, National University of Health Sciences 2013; MS, Advanced Clinical Practice, National University of Health Sciences, 2020

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# Faculty

## Faculty

### Full-Time Faculty

**Abusamra, Yasmin, PhD;** Professor of Biochemistry, Department Chair, Basic Medical Sciences; BS, Botany and Chemistry, University of Khartoum, Sudan, 1986; MS, Analytical Chemistry, University of Khartoum, Sudan, 1995; PhD, Biochemistry and Molecular Biology, Michigan State University, 2002.

**Alexander, Amanda, ND;** Associate Professor of Naturopathic Medicine; BS, Biology/Pre-Medicine, University of Georgia, 2001; MEd, Science Education, Georgia State University, 2006; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2012.

**Axelrod, Leslie, ND;** Professor of Naturopathic Medicine; BS, Human Nutrition, University of Massachusetts; ND, Bastyr University, 1987; Dipl. Ac, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 1998.

**Bain, Jaclyn, ND;** Associate Professor of Naturopathic Medicine; Division Director of Clinical Education; Department Chair, Pre-clinical Studies; BS, Biology, The College of New Jersey, 2009; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Science), 2013.

**Deng, Yong, MD, LAc;** Professor of Acupuncture and Chinese Medicine; Department Chair of Acupuncture and Chinese Medicine; Supervising Acupuncturist, Endowed Chair (Gero-Vita); MD (China), LAc, Chengdu College of Traditional Chinese Medicine, 1983.

**Eltigani, Hamid, MD;** Professor of Anatomy; MS, Human Morphology, University of Khartoum, Sudan, 1996; MD, Mink State Medical Institute, 1991.

**Gaines, Patricia, ND;** Professor of Naturopathic Medicine; Department Chair of Botanical Medicine; ND, Bastyr University, 2002.

**Howell, Pamela, MD;** Associate Professor of Clinical Diagnostics; Department Chair of General Medicine; BS, Biology and Chemistry, West Texas State University, 1985; MD, Texas Tech Medical School, 1989.

**Jonas, Mary Dawn, ND;** Assistant Professor of Naturopathic Medicine; BS, Psychology, Washington University, 1999; MA, Counseling, Webster University, 2001; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2016.

**Kennedy, Shaun, ND;** Assistant Professor of Naturopathic Medicine; MS, Psychology, University of Phoenix, 2011; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2016.

**Kadar, Gena, DC, MS.MEdL, CNS;** Professor of Clinical Nutrition; BA, Humanistic Studies, McGill University, 1998; DC, Southern California University of Health Sciences, 2001; CNS, Board for Certification of Nutrition Specialists, 2007; MS, Medical Education Leadership, University of New England, 2016.

**Kwan, Calvin, ND, CTKI;** Assistant Professor of Naturopathic Medicine; Interim Department Chair, Physical Medicine; BS, Microbiology, California Polytechnic Pomona, 2005; Post Baccalaureate, Biological Sciences, California Polytechnic Pomona, 2007; ND, Bastyr University, 2012.

**Langland, Jeffrey, PhD;** Professor of Research; Department Chair of Research; BS, Microbiology, Arizona State University, 1986; PhD, Microbiology, Arizona State University, 1990.

**Lasku, Arben, PhD;** Professor of Pathology and Laboratory Medicine; MD, University of Tirana, Albania, 1985; MS, Clinical Pathology, University of Tirana, Albania, 1988; PhD, Clinical Pathology, University of Tirana, Albania, 1994.

**Mitchell, Jessica, ND;** Assistant Professor of Naturopathic Medicine; Dean, College of Naturopathic Medicine; BS, Psychobiology, Binghamton University, 2001; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2005.

**Rice, Elizabeth, ND;** Assistant Professor of Naturopathic Medicine; Department Chair of Homeopathy & Pharmacology; BA, Global Studies- Culture and Ideology/Spanish Language, University of California, 2002; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2009.

**Rodriguez, Odessa Arianna, ND; BS,** Biological Science, Arizona State University, 2010; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2017.

**Salisbury, Lauren, ND;** Roosevelt Health Center Clinic Director; BA, Political Science, Our Lady of the Lake University, 2005; MS, Non-Profit Management, Our Lady of the Lake University, 2009; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2016; MS, Acupuncture, Phoenix Institute of Herbal Medicine and Acupuncture, 2019.

**Schmidt, John, PhD;** Professor of Physiology; BS, Biochemistry, University of Massachusetts, Amherst, 1981; PhD, Pharmacology, University of Washington, Seattle, 1987.

**Stage, Katrina, ND;** Associate Professor of Naturopathic Medicine; Division Director of Therapeutics; BA, Anthropology, Philosophy, Northwestern University, 1996; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2010.

**Thompson, H. Garrett, DC, PhD;** Vice President of Academic Affairs; BA, Biology, Reed College 1994; PhD, Biochemistry, Loma Linda University, 2000; DC, Southern California University of Health Sciences, Los Angeles College of Chiropractic, 2010.

**Trahan, Sarah, NMD;** Staff Physician, Neil Riordan Center for Regenerative Medicine; BS, Psychology, Loyola University, 2013; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2018.

## Adjunct Faculty

**Alfrey, Jennifer, MS;** BS, Exercise Physiology, University of Utah, 1995 MS, Exercise Science/Nutrition, Arizona State University, 2000

**Ama, Suzanne, DCN, MSN, MS Ed;** BFA in Digital Design, American InterContinental University, 2004; MS, Education, California State University East Bay, 2007; MS, Human Nutrition, University of Bridgeport, 2018; DCN, Maryland University of Integrative Health; 2021.

**Amrine, Craig, LAc;** BS, Ceramic Engineering, Alfred University, New York, 1991; MS, Acupuncture, Phoenix Institute of Herbal Medicine and Acupuncture, 2008.

**Arneson, David, ND;** BS, Psychology/Biology, University of Texas at El Paso; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2000.

**Baral, Matthew, ND;** BA, Biology, Castleton State College, 1994; ND, Bastyr University, 2000.

**Bethel, Klee, MD;** MD, Creighton University School of Medicine, 1986.

**Bos, Willem, DC;** BS, Human Biology, Northwestern Health Sciences University, 1999; DC, Northwestern Health Sciences University, 1999.

**Branham, Gary, MDR BS,** Business, Indiana University, Kelley School of Business, 1986 Master of Dispute Resolution, Pepperdine University of Law, Straus Institute for Dispute Resolution, 2015

**Briante, Carla, MSc., ND;** BA, Major Statistics, University of Guelph, 2004; MS, Statistics, University of Guelph, 2005; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2016.

**Brouwer, Lauri, ND;** BS, Nutrition (Dietetics), Arizona State University, 2008; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2012

**Carlblom, Bronwyn, ND;** BA, Classical Flute Performance, University of Southern California, 2010; ND, Southwest College of Naturopathic Medicine, (Now Sonoran University of Health Sciences), 2019.

**Cherpak-Castagna, Christine, DCN,CNS, CDN;** BA, Stony Brook University, 2007; DCN, Maryland University of Integrative Health, 2020.

**Clough, Kelly, ND;** BS, Physics and Economics, SUNY at Stony Brook Honors College, Stony Brook, NY, 2007; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2013.

**Conner, Daniel, DC;** BS, Western Illinois University, 1973; MS, Western Illinois University, 1974; DC, Cleveland College of Chiropractic, 1980.

**Cook, Tracey, ND;** BS, Biology, University of Akron, 2009; Masters, PIHMA, 2016; ND, Southwest College of Naturopathic Medicine & Health Sciences (Now Sonoran University of Health Sciences), 2014

**Covey, Christina, ND:** BS, University of Vermont, 2010; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2020

**Czeczuga, Alison,** BA, International Affairs, Elliott School of International Affairs, 2007; Certificate in Business Education, The George Washington University, School of Business, 2007

**Darragh, Angela, ND;** BS, Biological Sciences, Florida Atlantic University, 2006; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2012.

**Davis, Mark, ND;** BA, Applied Linguistics, University of Maryland, Baltimore County, 1999 ND, National College of Natural Medicine, 2011

**Desai, Sarika, DO;** BS, Health Promotion Studies, University of Southern California, 2004; DO, Western University of Health Sciences, 2008.

**DiCampli, Jesika, ND;** BS, Interdisciplinary Health Services, Saint Joseph's University, 2000; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2006.

**DeCarolus, Anna-Maria, ND;** BS, Biology, Grand Canyon University, 2017; Southwest College of Naturopathic Medicine, (Now Sonoran University of Health Sciences),

**Dye, John, ND;** Professor Emeritus; BA, Whittier College, 1974; ND, National University of Natural Medicine, 1979.

**Elia, Dana, DCN, MS, RDN;** BS, Montclair State University 1995; MS, Health Sciences, Rutgers, The State University of New Jersey 2015; DCN, Maryland University of Integrative Health 2020.

**Ewald, Jaime, ND;** BS, Biological Sciences, Wright State University, 2000; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2006.

**Freeth, Stephanie, MBA;** BA, English, Princeton University, 1997; MBA, Kellogg School of Management, Northwestern University, 2002.

# Faculty

**Gerstel, Johanne, ND;** BS, Psychology and Biology, Arizona State University, 2011; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2019.

**Goodman-Herrick, Pearlyn, ND;** ND, National University of Natural Medicine, 1979; DHANP, 1988.

**Grise, Diane, ND;** BS, Human Biology, Indiana University, 2009; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2013.

**Hamdan, Saeed, MD;** MD, General Medicine, Minsk State Medical University, Minsk; MS, Obstetrics & Gynecology, National Medical University, Russia, Moscow; PhD, Obstetrics & Gynecology, Russia State Medical University, Moscow; MS, Health Informatics, UAB, Birmingham, Alabama

**Hartwell, Lillea, ND;** BS, Plant Sciences, University of Arizona, 205; ND, Southwest College of Naturopathic Medicine & Health Sciences (Now Sonoran University of Health Sciences), 2019

**Harvey, Phillip, PhD;** M.S.P.H., Nutritional Sciences, UCLA, School of Public Health; PhD., Nutritional Biochemistry, Colorado State University

**Havens, Jennifer, ND;** BS, Biology and Chemistry, University of Central Arkansas, 1996; ND, Southwest College of Naturopathic Medicine & Health Sciences (Now Sonoran University of Health Sciences), 2015

**Hesselbrock, Rachel, ND;** BS, Dietetics, Arizona State University, 2010; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2017.

**Johnson, Arthur, Ed.D, Ed.S, M.Ed.;** M.Ed., University of Florida; Ed.S ; University of Florida; Ed.D., Florida Atlantic University.

**Jones, Feather;** Massage Therapist, Boulder School of Massage Therapy, 1978; Certification, Clinical Herbalist, Santa Fe College of Natural Medicine, 1982.

**Kaplan, Steven, ND:** BA, English Literature, University of California at Los Angeles, 1983; MA, Mass Communications (Radio-TV-Film), California State University, Northridge, CA, 1996; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2016

**Kaufman, Patricia, PhD, LDN, CNS;** MS, Human Nutrition and Functional Medicine, University of Western States, 2018; MBA, Marketing, Marquette University, 2000; PhD, Health and Performance, Concordia University of Chicago, 2021

**Kennedy, Stacy, MPH, RD, CSO, LDN;** BS, Nutrition Science & Dietetics, Indiana University, 1996; MPH, University of North Carolina at Chapel Hill, 2000.

**Kovalchik, Jessica, MS, DC;** BS, Biology, Marywood University, 2009; Doctor of Chiropractic, New York

Chiropractic College, 2011; MS, Applied Clinical Nutrition, New York Chiropractic College, 2020

**Klein, Rachel, ND, DC;** Doctor of Chiropractic, National University of Health Sciences, Lombard, IL, 2012; Doctor of Naturopathic Medicine, National University of Health Sciences, Lombard, IL, 2013

**Lewis, Danielle, ND;** BS, Health Science/Management, Old Dominion University, 1999; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2013.

**Livengood, Elizabeth, ND;** BS, Zoology, Arizona State University, 1992; MA, Education, University of Phoenix; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2015.

**MacKay-Timmermans, Drew, ND;** BS, Kinesiology, University of Western Ontario, CA; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2017.

**Marchese, Marianne, ND;** BS, Occupational Therapy, Creighton University, 1990; ND, National University of Natural Medicine, 2002.

**Medore, Yadim,** Founder and CEO of Pure Branding, Bennington College, Liberal Arts and Sciences, 1982-1984; University of North Carolina School of the Arts, Drama, 1984-1986

**Merkey, Allison, ND;** BS, Nutrition, University of Nevada Las Vegas, 2006; MS, Biology, University of Nevada Las Vegas, 2008; ND, Southwest College of Naturopathic Medicine, (Now Sonoran University of Health Sciences), 2018.

**Mirbolooki, Reza M, MD, PhD;** MD, General Medicine, Babol University of Medical Sciences, Babol, Iran, 2000; PhD, Experimental Surgery, University of Alberta, Edmonton, Canada, 2008.

**Moore, Jessica, ND, FABNO;** Bachelor of Kinesiology, University of Calgary, AB Canada, 2007; Doctor of Naturopathic Medicine, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2013; Fellow of the American Board of Naturopathic Oncology, 2017

**Mundt, Jennifer, ND;** BA, Biology, University of Minnesota, 2000; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2009.

**Pantermuehl, Jessica, NTP, CHHC;** NTP, Nutrition Therapy Practitioner, Nutritional Therapy Association, 2015; CHHC, Certified Holistic Health Counseling, American Association of Drugless Practitioners, 2012.

**Paulson, Heather, ND;** BS, Aquatic Biology, University of California, Santa Barbara, 2000; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2007.

**Phillips, Luke, MDiv**; BA, Religious Studies, University of South Florida, 2009; MDiv, Fuller Theological Seminary, 2015.

**Pinazza, Anthony, ND; BS**, Biochemistry, Southern Nazarene University, 2013; ND, Southwest College of Naturopathic Medicine & Health Sciences (Now Sonoran University of Health Sciences), 2018

**Raspaolo, Pasqualina, Chef, CNS**; CNS, American Nutrition Association, 2012; MS, Human Nutrition, University of Bridgeport, 2012; Chef Training Program, Natural Gourmet Institute, 2018

**Ross, Kim, DCN, MBA, MS, CNS**; MBA, Utica College, 2008; MS, Applied Clinical Nutrition, New York Chiropractic College, 2012; DCN, Maryland University of Integrative Health, 2021.

**Sanchez, JoAnn**; BS, Forestry & Wildlife Management, University of Rhode Island, 1981.

**Savaya, Juline, ND**; BS, Nutrition, Arizona State University, 2017; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2021

**Schichtl, Rachel, PhD, RDN, FAND**; MS, Nutrition, University of Central Arkansas, 2005; RDN, Nutrition and Dietetic Internship, University of Central Arkansas; 2009; PhD., Family and Consumer Sciences Education, Texas Tech University, 2020.

**Schuler, Corey., DC**; BS, Valparaiso University, 2002; DC, Northwestern Health Sciences University, 2007; MS, Human Nutrition, University of Bridgeport, 2011; ASN, International College of Health Sciences, 2016; MBA, Quantic School of Business and Technology, 2018; BSN, Graceland University, 2019; MSN, Graceland University, 2021.

**Seitz, Stephanie, ND**; BA, Clinical Laboratory Sciences, Augustana College, 2000; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2010.

**Sharaf, Sydney, ND**; BS, Nutrition Science, Montana State University, 2014, ND, Southwest College of Naturopathic Medicine & Health Sciences (Now Sonoran University of Health Sciences), 2019

**Sherlin, Leslie, PhD**; BS, Psychology, University of Tennessee, 2000; MS, Psychology, Capella University, 2003; PhD, Psychology, Capella University, 2008.

**Shokoohinia, Yalda, PharmD, PhD**; Professor of Research, Pharm D, Pharmacy, Isfahan University of Medical Sciences, Isfahan, Iran, 2005; PhD, Pharmacognosy, Isfahan University of Medical Sciences, 2010; Fellowship in Phytochemistry, Eastern University of Piedmont, 2009; Fellowship in Medicinal Plants Analysis, The University of Mississippi, 2017.

**Shiffler, Nichole, ND**; BS, Biology/Biological Sciences, Northern Arizona University, 2007, ND, Southwest College

of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2013

**Short, Daniel, PhD**; BA, Psychology, McMurry University, 1990; MS, University of North Texas, 1993; PhD, Counseling Psychology, University of Massachusetts, Amherst, 2000.

**Stone, Sarah, ND**; BS, Psychology, University of South Florida, 2011; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2015.

**Tabares, Amber, ND**; BA, Biology, University of Missouri, 2004; MBA, Healthcare, American Intercontinental University, 2006; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2012.

**Tamburri, Phranq, ND**; BS, Life Sciences, University of Pennsylvania, 1998; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2002.

**Thompson, Angela, PhD, PharmD**; PharmD, College of Pharmacy, North Dakota State University, 2007; Ph.D., Pharmaceutical Sciences, North Dakota State University; 2004

**Vaughan, Karen, ND**; BS, Biology, University of South Florida, 1999; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2004.

**Vedeler, Christopher, LAc**; BA, Philosophy, New Mexico State University, 1998; MS, Oriental Medicine, Southwest Acupuncture College, 2004.

**Volk, Kimberly, ND**; BA, Psychology, University of Buffalo, 2001; RN, Associates in Applied Sciences, Alfred SUNY, 1992; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2006.

**Wheeler, Miriam, ND**; BS, Nutritional Sciences, University of Arizona, 2010; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2014.

**Wright, Berlin, ND; BS**, Kinesiology, Barrett Honors College, ASU, 2013; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2018

**Yarnell, Eric L, ND**; BS, Natural Health Sciences, Bastyr University, 1994; ND, Bastyr University, 1996.



# Faculty

## Visiting Adjunct Research Faculty

**Bell, Iris, MD, PhD;** BA, Harvard University, 1972; MD, Stanford University, 1980; PhD, Stanford University, 1997.

**Bibak, Emily, PhD;** MS, Chemistry, Linköping University, Sweden; PhD, Pharmaceutical Chemistry, Heidelberg University

**Jacobs, Jennifer, MD, MPH;** BA Biology, Wayne State University 1972; MD, Wayne State University, 1976; MPH, University of Washington School of Public Health, 1990

**Riley, David, MD;** BA, UNC-Chapel Hill, 1976; MD, University of Utah, Salt Lake City, 1983.

**Shahabi, Shahram, MD, PhD, DHom;** DHom, Diploma of the Institute of Homeopathy, British Institute of Homeopathy; MD, General Medicine, Tehran Medical Sciences University, PhD, Medical Immunology, Tarbiat Modares University, Tehran, Iran.

**Standish, LJeanna J, PhD, ND, MSAOM;** Ph.D., University of Massachusetts, Amherst; ND, Bastyr University; MSAOM, Bastyr University

**Upton, Roy, RH; DipAyu;** Diploma in Ayurveda, Mt. Madonna College of Ayurveda, 2006; 120-hour Program, Traditional Chinese Herbal Medicine and Acupuncture, Shanghai College of Traditional Chinese Medicine, 1997

## Honorary Faculty

**Buratovich, Nick, ND;** Professor Emeritus; BS, Biology, Saint Mary's College, 1973; ND, National University of Natural Medicine, 1983.

**Canvasser, Bruce, ND;** National University of Natural Medicine, 1977.

**Dye, John, ND;** Professor Emeritus; BA, Whittier College, 1974; ND, National University of Natural Medicine, 1979.

**Eizayaga, Francsico, MD, PhD;** MD, University of Salvador, Buenos Aires, Argentina; PhD, Mainondies University, Buenos Aires, Argentina.

**Glick, Ronald, DO;** University of Osteopathic Medicine and Health Sciences, College of Osteopathic Medicine and Surgery, 2019

**Messer, Stephen, MEd, ND, DHANP;** Professor Emeritus; MEd, University of Pennsylvania, 1974; ND, National University of Natural Medicine, 1979; DHANP, 1988.



## Physicians

### Field Observation and Elective Offsite Physicians

**Alexander, Amanda, ND;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2012.

**Alexandria, Karsten, ND;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 1996.

**Arneson, David, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2000.

**Asin, Gerald, MD;** University of Oklahoma College of Medicine, 1987.

**Attah Prince, Ubong, ND;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2013.

**Averitte, Jr, Richard, MD;** University Toledo College of Medicine, 1998.

**Bagnasco, Terri, MD, ND;** MD, State University of New York Medical Center College of Medicine, 1992; ND, Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2019.

**Bahr, Jennifer, ND;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2012.

**Bain, Jaclyn, ND;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2013.

**Banaian, Azam, MD, NMD;** University of Tehran, 1990; Southwest College Of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2013

**Baral, Matthew, ND;** Bastyr University, 2000.

**Beitel, Sue Rosario, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2013.

**Benchouk, Stephen, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2012.

**Bennett, Bobbie, DC;** Northwestern Health Sciences University, 2005.

**Beran, Jeffrey, PT, DPT, ATC;** A.T. Still University, 2006.

**Berkner, Kris, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2009.

**Bethel, Klee, MD;** Creighton University School of Medicine, 1986.

**Bishop, Kristen, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2009.

**Borakowski, Natalya, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2019.

**Borsa, Robin, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2003.

**Bos, Willem, DC;** Northwestern Health Sciences University, 1999.

**Briante, Carla, ND;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2016.

**Brouwer, Lauri, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 1996.

**Butler, Lisa, DDS;** Arizona School of Dentistry and Oral Health, 2009.

**Ceballos-Logan, Gladys, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2002.

**Chambers, Keith, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2009.

**Coats, Melissa, ND;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2008.

**Correia, Kirstin, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2011.

**Cronin, Courtney, ND;** Southwest College of Natural Medicine (Now Sonoran University of Health Sciences), 2006.

**Crowder, Terrence, MD;** University of Arkansas Medical School, 2003.

**Darragh, Angela, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2011.

**Davenport, Emily, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2008.

**DiCampli, Jesika, NMD, CPM;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2006.

**Dye, Jennifer, NMD;** Bastyr University, 2007.

**Ellis, Erin, ND;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2017.

**Eischens, Shawna, ND;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2012.

# Physicians

**Fontius, Jennifer, MD;** University of California, California College of Medicine, 1999.

**Feria, Lilia, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2014.

**Fountis, Sophia, DO;** Ohio University College of Osteopathic Medicine, 1989.

**Fuji, Kristen, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2009.

**Gaitan, Paul, MD;** University of Rochester School of Medicine, 2001.

**Gentry, Jennifer, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2006.

**Geyer, MaryK, ND;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2007.

**Glick, Ronald, DO;** University of Osteopathic Medicine and Health Sciences, 1983.

**Goldhamer, Alan, DC;** Western States Chiropractic College, 1983.

**Gorman, Julie, NMD, LAc;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2001.

**Grahe-Keel, Julie, DC;** Palmer College of Chiropractic, 2000.

**Grobe, Denise, ND;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2004.

**Ham, Natalie, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2007.

**Hamilton, Cheryl, ND;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2012.

**Harris, Brecken, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2013.

**Hassberger, Kelly, ND;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2011.

**Havens, Jennifer ND;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2015.

**Hayman, Jessica, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2010.

**Heffner, Karlee, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2008.

**Hernandez, Matthew, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2014.

**Hinojosa, Judy, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2008.

**Hirons, Kami, ND;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2007.

**Hobi, Annette, ND;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2015.

**Jensen, Jason, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2007.

**Jonas, Mary Dawn, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2016.

**Katz, Steven, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2013.

**Khoshaba, Linda, NMD, FABNE;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2012.

**Kim, Cho Long, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2008.

**Kindred, Willie, DC;** Palmer College of Chiropractic, 1974.

**Kohler, Gemie, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2010.

**Kooima, Jessica, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2013.

**Kovalik, Christina, NMD, LAc;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2003.

**Kupperman, Jamie, ND;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2003.

**Leff, Michael, DC;** Palmer College of Chiropractic San Jose, CA. 1998.

**Le Provost, Jean-Luc, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2009.

**Lewis, Danielle, ND;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2013.

**Lim, Hilary, ND;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2015.

# Physicians

**Logan, Gladys, ND;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2002.

**Lovick, Ann, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2007.

**Lubitz, Bruce, DC;** Columbia Institute of Chiropractic 1976.

**Lussier, Spice, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2006.

**MacKay-Timmermans Drew, ND;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2017

**Magerus, Tracy, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2009.

**Malgrew, Juliette, ND;** Bastyr University, 2015.

**Maltais, Shannon, NMD;** National College of Naturopathic Medicine, 2003.

**Massingale, Morgan, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2018.

**Mayer, Alexandra, ND;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2014.

**McCarthy, Brendan, NMD;** Southwest College of Naturopathic Medicine (Now Sonoran University of Health Sciences), 2006.

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