NUTRITIONAL SCIENCES DEPARTMENT

The Department of Nutritional Sciences leads in cutting-edge research, outstanding undergraduate and graduate programs, Cooperative Extension programs and continuing professional education that advance the discovery and translation of nutrition and physical activity in optimizing health for people in Arizona, and beyond.

PROGRAM DESCRIPTION

The Professional Science Master in Applied Nutrition (PSM) serves the needs of students, educators, registered dietitian nutritionists (RDNs), and health professionals interested in obtaining advanced training in the application of nutrition science to human health, and developing valuable professional skills (e.g., leadership, writing and communication skills, project management) while gaining hands-on experience in business or the public sector.

Coursework for this 30-unit Master degree program will be offered 100% online through the University of Arizona’s Online Campus, providing maximum flexibility to students, many of whom we anticipate to be working professionals. The program is designed to be completed in 18 months.

Unlike existing Master in Nutrition Science programs, the Professional Science Master includes 6 credit hours of graduate level capstone during which students will work with a partner organization to complete approximately 270 hours (45 hours per unit of credit) of hands on experience that will serve as their graduate capstone project. Students will also have the opportunity to complete 6 units of PLUS coursework tailored to their profession and/or professional development goals.

ADVISING

The program coordinator serves as advisor for students enrolled in the professional science master in applied nutrition program. It is recommended that you contact the program coordinator at least each semester to facilitate adequate contact regarding progress in courses, questions regarding future coursework and any other academic or personal issues.
## PSM in APPLIED NUTRITION FACULTY

<table>
<thead>
<tr>
<th>Faculty &amp; Contact Information</th>
<th>Course(s) Taught/Program Role</th>
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<tbody>
<tr>
<td>Kayle Skorupski, MS, RDN-AP, CSG, CNSC &lt;br&gt; <a href="mailto:kayleskorupski@email.arizona.edu">kayleskorupski@email.arizona.edu</a></td>
<td>Program Coordinator&lt;br&gt;NSC 597: Capstone Prep Workshop&lt;br&gt;NSC 698A: Capstone 1&lt;br&gt;NSC 698B: Capstone 2</td>
</tr>
<tr>
<td>Qionghiu “Shelley” Zhang, MS &lt;br&gt; <a href="mailto:qzhang1@email.arizona.edu">qzhang1@email.arizona.edu</a></td>
<td>NSC 501: Statistics for Applied Nutritional Sciences I&lt;br&gt;NSC 502: Statistics for Applied Nutritional Sciences II</td>
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<tr>
<td>Vanessa da Silva, PhD, RD &lt;br&gt; <a href="mailto:vdasilva@email.arizona.edu">vdasilva@email.arizona.edu</a></td>
<td>NSC 509: Advanced Nutrition Metabolism and Disease</td>
</tr>
<tr>
<td>Mary Marian, DCN, RDN, CSO, FAND &lt;br&gt; <a href="mailto:mmarian@email.arizona.edu">mmarian@email.arizona.edu</a></td>
<td>NSC 519: Advanced Applied Nutritional Sciences&lt;br&gt;NSC 542: Advanced Medical Nutrition Therapy</td>
</tr>
<tr>
<td>Amy Drescher, PhD, RDN &lt;br&gt; <a href="mailto:drescher@email.arizona.edu">drescher@email.arizona.edu</a></td>
<td>NSC 545: Assessment and Regulation of Human Body Composition</td>
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<tr>
<td>Jessica Martinez, PhD &lt;br&gt; <a href="mailto:jam1@email.arizona.edu">jam1@email.arizona.edu</a></td>
<td>NSC 575: Nutrigenomics for the Study of Disease Prevention &amp; Intervention</td>
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## NETID AND EMAIL

Your NetID is your personal identifier for a number of online services at the University of Arizona, including:

- Email and UITS computing accounts (CatMail, UAConnect, HPC)
- UAccess accounts
- D2L – web-based course management system
- University site-licensed software

The UA NetID verifies identify when it is used for online services the University of Arizona provides. To set up your NetID, please visit: [https://netid.arizona.edu/](https://netid.arizona.edu/)

Your CatMail account is created automatically when you select your NetID. The new email address with all have the format your [NetID@email.arizona.edu](mailto:NetID@email.arizona.edu), and it is the official means of communication between the students and the university. It is required that you use your UA

Last updated 4/16/2018
email for communication with your instructors. You will also receive notification of tuition bills, etc. via this email address. The email is provided by the Google G Suite for Education, which provides access to Google’s full suite of applications. For more information, please visit: it.arizona.edu/service/catmail-student-email

D2L (Desire2Learn)

D2L provides instructors and students with an online space for traditional classroom courses, online classes, or hybrids. In D2L you will find:

- Course syllabi
- Readings
- Assignments
- Quizzes
- Grades
- List of classmates
- Online discussions
- And more....

D2L includes access to tools such as Adobe Connect, Panopto, VoiceThread and Examity. To access D2L, please visit: https://d2l.arizona.edu/. For assistance with D2L, please visit: http://help.d2l.arizona.edu/student/student-home

D2L requires that you submit files as Microsoft Office compatible (i.e. WORD) or as PDF files. Other file types (i.e. PAGES) will not be accepted. As a UA student, you are able to download Microsoft Office 365 for your use. For more information, please visit: http://uabookstore.arizona.edu/technology/campuslicensing/default.asp

UNIVERSITY OF ARIZONA LIBRARIES

The University of Arizona libraries provide resources, services and expertise to the University and the local community, the main library website can be found at http://new.library.arizona.edu/

There is a library resource page set up specifically for Applied Nutrition students, please access: http://libguides.library.arizona.edu/gcan for more information. This website has the contact information for the librarian for the College of Agriculture and Life Sciences, as well as links for information that is relevant to graduate students and to online students.

STUDENT SUPPORT AND RESOURCES

As a UA Online student, you will have access to wide range of resources and tools to support you on your journey including: free tutoring, academic skills coaching, and the Disability
Resources Center. For more information regarding these support services please visit: http://uaonline.arizona.edu/student-support

The Graduate College also has many resources available, for more information visit: http://grad.arizona.edu/new-and-current-students

The department of Academic Success & Achievement provides a service called SOS (Support, Opportunity, Success). SOS is for UA students who find themselves facing questions or issues and are unsure about where to go for answers. Whether you're brand-new to campus or have been around for a while, just reach out to SOS for round-the-clock support. Access their website to learn more about SOS, or to ask a question: https://sos.arizona.edu/

The Disability Resource Center (DRC) is focused on creating inclusive learning and working environments and facilities through all aspects of the University of Arizona. The access consultant for the Graduate College is Jayci Robb and she can be reached at: jacyir@email.arizona.edu. For more information regarding the DRC, please visit their webpage: https://drc.arizona.edu/

STUDENT RESPONSIBILITIES AND PROFESSIONAL CONDUCT

Please visit the following link for more information regarding the Student Code of Conduct at the University of Arizona: https://deanofstudents.arizona.edu/student-code-conduct-student-faqs

IMPORTANT LINKS

- Graduate College – access to Graduate College policies, contacts, information about resources, deadlines and other useful information: http://grad.arizona.edu
- Resources for professional development and health and wellness please visit: http://grad.arizona.edu/new-and-current-students
- General Catalog provides comprehensive information related to all academic programs at the University of Arizona: http://catalog.arizona.edu/
- Academic Integrity – please review the code of academic integrity: https://deanofstudents.arizona.edu/policies-and-codes/code-academic-integrity
- Responsible Conduct of Research: http://www.orcr.arizona.edu/

It is the Department of Nutritional Sciences policy that the student hold final responsibility for being aware of and responding to all Nutritional Sciences, Graduate College and University of Arizona polices, requirements, formats and deadlines as they pertain to progression towards and completion of their program. If any questions persist following review of all policies, please contact your program coordinator for assistance and clarification.
FINANCIAL INFORMATION

Cost per unit for the program is $650 per unit. Currently no funding opportunities are available for this program in the form of scholarships, TA or RA positions. Financial Aid is available, for more information regarding financial aid eligibility please visit: [http://financialaid.arizona.edu/faq-or-dynamic/do-i-qualify](http://financialaid.arizona.edu/faq-or-dynamic/do-i-qualify)

The University of Arizona utilizes Scholarship Universe, an advanced scholarship management system for our students. For more information, please visit: [https://scholarshipuniverse.arizona.edu/SUHA/](https://scholarshipuniverse.arizona.edu/SUHA/)

The Graduate College provides information regarding funding and financial information (including information regarding grants, fellowships, and scholarships): [https://grad.arizona.edu/funding](https://grad.arizona.edu/funding)

The Graduate & Professional Student Council provides Research and Project (ReaP) Grants that offer up to $1,000 to partially or completely fund projects. For more information, please visit: [http://gpsc.arizona.edu/research-grants](http://gpsc.arizona.edu/research-grants)

The Graduate & Professional Student council provides travel grants for professional development purposes. For more information, please visit: [http://gpsc.arizona.edu/travel-grants](http://gpsc.arizona.edu/travel-grants)

ADMISSION REQUIREMENTS

PSM in Applied Nutrition program applicants must meet the following minimum requirements:

- Bachelor of Science degree in Nutrition or related field from an accredited institution. A Bachelor of the Arts (B.A.) degree will be accepted in the area of Nutrition.
- If undergraduate degree is in a field other than nutrition, coursework in physiology, biochemistry and a 400 (senior) level nutrition and disease course is required.
- Minimum 3.0 GPA overall in undergraduate degree
- International students must submit a Minimum TOEFL (Internet-based) Score of 79 or (Paper-based) Score of 550. The minimum IELTS (overall band score) is 7.
- Additionally, because the PSM program is delivered exclusively online, the following student characteristics are essential to successfully completing the program:
  - Self-directed, independent learner
  - Able to manage time effectively
  - Effective written and verbal communication
  - Able to utilize a wide range of resources effectively

For complete application requirements and instructions on how to apply to the graduate college please visit: [https://apply.grad.arizona.edu/users/login](https://apply.grad.arizona.edu/users/login). Students must be admitted to the graduate college prior to enrolling in courses.
COURSE REQUIREMENTS AND DESCRIPTIONS

All courses will be fully distributed through online course tool platforms and technology. Students accepted into the PSM must complete the following courses:

- NSC 501 – Statistics for Applied Nutritional Sciences (1)
- NSC 509 – Advanced Nutrition Metabolism and Disease (3)
- NSC 519 – Advanced Applied Nutritional Sciences (3)
- NSC 542 – Advanced Medical Nutrition Therapy (3)
- NSC 575 – Nutrigenomics for the Study of Disease Prevention & Intervention (3)
- NSC 545 – Assessment and Regulation of Human Body Composition (3)
- NSC 502 – Statistics for Applied Nutritional Sciences II (1)
- PLUS Course work (6 units)
- NSC 597 – Capstone Prep Workshop (1)
- NSC 698A – Capstone I (3)
- NSC 698B – Capstone II (3)

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<tr>
<th>Course</th>
<th>Term Offered</th>
<th>Catalog Description</th>
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<tr>
<td>NSC 542: Advanced MNT (3 units)</td>
<td>Fall I</td>
<td>This course focuses on the prevention and management of selected chronic disease and acute care conditions. An in-depth exploration of the selected topics and related research using an evidence-based approach will serve as the class foundation. The course will be completed with students presenting a discussion/review of an approved topic.</td>
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<td>8/20 – 10/10</td>
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<tr>
<td>NSC 545: Assessment and Regulation of Human Body Composition (3 units)</td>
<td>Fall II</td>
<td>This course covers advanced principles of body composition assessment and management. Methods of body composition assessment will be covered with a focus on aging, obesity, sarcopenia and bone health. The impact of physical activity and pharmacology will be reviewed.</td>
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<tr>
<td>NSC 575: Nutrigenomics for the Study of Disease Prevention &amp; Intervention (3 units)</td>
<td>Fall II</td>
<td>Nutrigenomics is the application of genomics to human nutrition. This online course will explore relevant technologies, genetics &amp; nutrition. Designed by researchers in colleges &amp; centers of excellence, it will be continually updated with the latest information. Graduate-level requirements include Nutrigenomics/Organization of the genome; Advanced Models; Target validation; Mouse models; lab assignments; Advanced discussion board questions (4 total) are due after each unit. OR PLUS Course - refer to PLUS course listings</td>
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<td>PLUS COURSE (3 units)</td>
<td>Spring 2019</td>
<td>PLUS Course – refer to PLUS course listings</td>
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<td>January 2019</td>
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<tr>
<td>NSC 597: Capstone Workshop Prep (1 unit)</td>
<td>Spring I</td>
<td>The Capstone Workshop Prep course is designed to help students: identify potential sites for their capstone courses, develop talking points when discussing the capstone with potential sites, obtain the required affiliation requirements with their site, build knowledge of research requirements through completion of CITI trainings and further develop presentation and writing skills.</td>
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<td>January 2019</td>
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<tr>
<td>NSC 575: Nutrigenomics for the Study of Disease Prevention &amp; Intervention (3 units)</td>
<td>Spring 2</td>
<td>Nutrigenomics is the application of genomics to human nutrition. This online course will explore relevant technologies, genetics &amp; nutrition. Designed by researchers in colleges &amp; centers of excellence, it will be continually updated with the latest information. Graduate-level requirements include Nutrigenomics/Organization of the genome; Advanced Models; Target validation; Mouse models; lab assignments; Advanced discussion board questions (4 total) are due after each unit. OR PLUS Course - refer to PLUS course listings</td>
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<td>Jan 2019</td>
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<tr>
<td>NSC 501: Statistics for Applied Nutritional Sciences I (1 unit)</td>
<td>Summer Pre-Session</td>
<td>This course will introduce the concepts of research methods with a focus on the varied research conducted in nutritional sciences. Students will be guided through a comprehensive compendium of the elements of research design in order to understand the application of these elements to Applied Nutritional Science.</td>
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<td>May 2019</td>
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<tr>
<td>NSC 509: Advanced Nutrition Metabolism and Disease (3 units)</td>
<td>Summer I</td>
<td>This class will review the multi-facets of macronutrient metabolism and application to the prevention and development of common chronic diseases. The clinical applications of nutrient deficiencies and toxicities will also be reviewed. Metabolic alterations associated with obesity, metabolic syndrome, and other diseases will be discussed. The application of evidence-based guidelines and research for nutritional interventions will be discussed through weekly readings and assignments.</td>
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<td>June 2019</td>
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<tr>
<td>NSC 519: Advanced Applied Nutritional Sciences (3 units)</td>
<td>Summer II</td>
<td>This course will advance understanding of research design, methods, and implementation, interpretation of research findings, and advances in nutrition science research for selected chronic diseases.</td>
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<td>July 2019</td>
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<td>NSC 698A: Capstone I</td>
<td>Fall I, August 2019</td>
<td>Casptone I consists of 135 hours of practical professional training with a sponsoring agency/facility. Students will conduct a needs assessment and propose a topic for final project to be completed in NSC 698B. Students will write a progress report which will be presented to the class.</td>
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<tr>
<td>NSC 694B: Capstone II</td>
<td>Fall II, October 2019</td>
<td>Capstone II consists of 135 hours of practical professional training with a sponsoring agency/facility that culminates the Professional Science Master program and produces a final project. Students will develop a final report on the project objectives, methods, and outcomes. The project will be presented to the class in a presentation form, and a poster will also be produced.</td>
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<tr>
<td>NSC 502: Statistics for Applied Nutritional Sciences II (1 unit)</td>
<td>Winter, December 2019</td>
<td>This course will introduce basic statistical concepts and applied statistical strategies that are essential for conducting and critiquing research in nutritional sciences and related fields. The course will be delivered online structured with video lectures, self-check practices, discussion forum, assignments and quizzes. The experiences within the course will provide students the necessary competencies to appropriately summarize data (descriptive statistics) and implement statistical tests (inferential statistics) based upon appreciation of research design and data characteristics.</td>
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**STUDENT OUTCOMES**

- Critically evaluate nutrition sciences research and demonstrate knowledge of research methods and statistics.
- Apply evidence-based nutrition concepts to a professional setting, i.e. clinical, communication, education and industry.
- Demonstrate professional interpersonal skills including communication, collaboration and leadership.

**CREDIT FOR COURSES TAKEN AS A NON-DEGREE-SEEKING STUDENT**

Domestic students may transfer up to 6 units of coursework taken as non-degree seeking students. This means that you may enroll in the required courses prior to being admitted into the program. This does not mean that you may transfer other courses to count toward the degree. Courses taken as a non-degree seeking student that may be applied to the PSM are NSC 501, NSC 509, NSC 519, NSC 542, NSC 545, NSC 575 or NSC 502 – PLUS course electives also may be taken as non-degree seeking.
International students are not permitted to enroll in online classes outside of a certificate or degree program. In other words, international students must be accepted into the PSM program prior to enrolling in online courses.

INCOMPLETE POLICY

Students earning a grade of Incomplete, “I” for a course should submit a completed Report of Incomplete Grade form to the program coordinator for inclusion in their academic record. This form is available here: http://registrar.arizona.edu/grades/incomplete-i-grade. Incomplete grades should be completed in a timely manner and are submitted at the discretion of the course instructor.

REMEDICATION

Students judged to have academic difficulties (e.g. poor, grades, failing or at risk of failing to satisfy program requirements) will receive notice from the program coordinator with specific suggestions as to how these problems might be remedied and the data by which such actions must be taken. This notification will be copied to the Graduate College. The Graduate College has established guidelines, which departments must follow in order to dismiss students from their programs. Students should familiarize themselves with the steps so they know their rights, responsibilities, and remedies should such a situation develop. Students who fail to remediate by the deadlines specified may be dismissed from the program.