Program Change Request

New Program Proposal

Date Submitted: 09/25/18 10:17 am

Viewing: MCN-CNTR : Master of Clinical Nutrition

Last edit: 12/18/18 11:52 am

Changes proposed by: kcowell

Contact(s)

<table>
<thead>
<tr>
<th>Name</th>
<th>E-mail</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Kristin de Ruiter</td>
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<td>979-845-2142</td>
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<td>Stephen Talcott</td>
<td><a href="mailto:stalcott@tamu.edu">stalcott@tamu.edu</a></td>
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</tr>
</tbody>
</table>

Academic level: Graduate

Effective Term: 2020-2021

Department: Nutrition & Food Science

College: Agriculture & Life Sciences

Program type: Degree

Degree designation: MCN - Master of Clinical Nutrition

With a major in: Clinical Nutrition (CNTR)

Associated Program: Not Applicable

Catalog Program Title: Master of Clinical Nutrition

CIP and Fund code: 30190100

Rationale for Proposal

The College of Agriculture and Life Sciences is proposing a new professional degree program as a Master of Clinical Nutrition for Fall 2019 for Texas A&M University, College Station, TX. The program capitalizes on the current and future need for registered dietitians in Texas and nationwide, to advance nutrition in the treatment and prevention of acute and chronic disease. Starting in 2024, The Accreditation Council for Education in Nutrition and Dietetics and the Commission on Dietetic Registration will require at least a Master’s degree to be administered the national credentialing exam to become a Registered Dietitian Nutritionist (RDN). Texas A&M University and the Department of Nutrition and Food Science are uniquely positioned to offer a strong background in nutritional biochemistry followed by a mandatory clinical dietetic internship with approved preceptors to meet and exceed the national standards for our students to become an RDN.

According to the Bureau of Labor Statistics, by 2024 employment in nutrition and dietetics is projected to increase by 16% with a projected growth of 28% in Texas. Hospitals are the primary employer of credentialed RDN graduates, but other employers are seeking these individuals including clinical environments such as outpatient care centers and physician offices. Some emerging markets for RDNs include individual private practice, insurance and corporate wellness, medical research, and social media. The proposed degree program is a focus on clinical nutritional practice and will help future dietetics practitioners become nationally certified in their field. The professional groups that oversee the certification agree that an advance degree is necessary to address the increased knowledge requirements from improved critical thinking to acquisition of greater clinical practice skills. The professional degree is akin to other health professions where academics are put into clinical practice as part of the pedagogy of the program. In order for dietitians to remain abreast with changes in practice, healthcare, and other health professionals our clinical dietetic practitioners will require the proposal professional master’s degree to remain accredited.

Program hours: 36

Is this program eligible for financial aid?: Yes

Program delivery mode:
- On-campus
- Distance Education/Internet

% of Program a student can take off-campus or:
25%

In Workflow:
1. NFSC Reviewer GR
2. NFSC Department Head
3. Curricular Services Review
4. AG Committee Preparer GR
5. AG Committee Chair GR
6. AG College Dean GR
7. Provost
8. GC Preparer
9. GC Chair
10. Faculty Senate Preparer
11. Faculty Senate
12. Provost II
13. President
14. External Approval
15. Curricular Services

Approval Path:
1. 06/19/18 8:40 am Stephen Talcott (stalcott): Approved for NFSC Reviewer GR
2. 06/19/18 8:41 am Stephen Talcott (stalcott): Approved for NFSC Department Head
3. 06/20/18 9:51 am Sandra Williams (sandra-williams): Approved for Curricular Services Review
4. 06/20/18 10:22 am Dawn Kersteer (dkersteer): Approved for AG Committee Preparer GR
5. 06/20/18 10:24 am Dawn Kersteer (dkersteer): Approved for AG Committee Chair GR
6. 06/20/18 10:27 am Dawn Kersteer (dkersteer): Approved for AG College Dean GR
7. 06/21/18 4:19 pm Deena McConnell (djm): Rollback to Initiator
8. 09/25/18 10:16 am Stephen Talcott (stalcott): Rollback to Initiator
9. 09/25/18 10:20 am Stephen Talcott

https://nextcatalog.tamu.edu/courseleaf/approve/?role=Faculty%20Senate
Catalog Program Requirements

Program Requirements
Student’s Advisory Committee
Degree Plan
Credit Requirements
Transfer of Credit
Limitations on the Use of Transfer, Extension and Certain Other Courses
Final Examination

Student’s Advisory Committee
After receiving admission to graduate studies and enrolling for coursework, the student will consult with the head of his or her major or administrative department (or intercollegiate faculty, if applicable) concerning appointment of the chair of his or her advisory committee. The student’s advisory committee for the MS degree will consist of no fewer than three members of the graduate faculty, representative of the student’s fields of study and research. The chair or the co-chair of the advisory committee must be from the student’s major department (or intercollegiate faculty, if applicable), and at least one or more of the members must have an appointment to a department other than the student’s major department. The outside member for students in an interdisciplinary program must have an appointment to a department different from the chair of the student’s committee.

The chair, in consultation with the student, will select the remainder of the advisory committee. The student will interview each prospective committee member to determine whether he or she is willing to serve. Only graduate faculty members located on Texas A&M University campuses may serve as chair of a student’s advisory committee. Other graduate faculty members located off campus may serve as a member or co-chair (but not chair) with a member as the chair. The chair of the committee, who usually has immediate supervision of the student’s research and thesis, has the responsibility for calling required meetings of the committee and for calling meetings at any other time considered desirable.

If the chair of a student’s advisory committee voluntarily leaves the University and the student is near completion of the degree and wants the chair to continue to serve in this role, the student is responsible for securing a current member of the University Graduate Faculty, from the student’s academic program and located near the Texas A&M University campus site, to serve as the co-chair of the committee. The Department Head or Chair of Intercollegiate faculty may request in writing to the Associate Provost for Graduate and Professional Studies that a faculty member who is on an approved leave of absence or has voluntarily separated from the university, be allowed to continue to serve in the role of chair of a student’s advisory committee without a co-chair for us to one year. The students should be near completion of the degree. Extensions beyond the one year period can be granted with additional approval of the Dean.

If the chair of the student’s advisory committee is unavailable for an extended time in any academic period during which the student is involved in activities relating to an internship, thesis or professional paper, and is registered for courses such as 684, 691, 692 or 693, the student may request, in writing, that the department head
The duties of the committee include responsibility for the proposed degree plan, the research proposal, the thesis and the final examination. In addition, the committee as a group and as individual members are responsible for advising the student on academic matters, and, in the case of academic deficiency, initiating recommendations to the Office of Graduate and Professional Studies.

The committee members' approval on the degree plan indicate their willingness to accept the responsibility for guiding and directing the entire academic program of the student and for initiating all academic actions concerning the student. Although individual committee members may be replaced by petition for valid reasons, a committee cannot resign en masse.

**Degree Plan**

The student's advisory committee, in consultation with the student, will develop the proposed degree plan. The degree plan must be completed and filed with the Office of Graduate and Professional Studies prior to the deadline imposed by the student's college or interdisciplinary degree program, if applicable, and no later than 90 days prior to the date of the final oral examination or thesis defense.

This proposed degree plan should be submitted through the online Document Processing Submission System located on the website [https://ogsdpss.tamu.edu](https://ogsdpss.tamu.edu). Additional coursework may be added to the approved degree plan by petition if it is deemed necessary by the advisory committee to correct deficiencies in the student's academic preparation. No changes can be made to the degree plan once the student's Request for Final Examination or Request for Final Examination Exemption is approved by the Office of Graduate and Professional Studies.

**Credit Requirement**

A minimum of 36 semester credit hours of approved coursework is required for the Master of Clinical Nutrition degree.

**Transfer of Credit**

A student who has earned 12 hours of graduate credit in residence at Texas A&M University may be authorized to transfer courses in excess of the limits prescribed below upon the advice of the advisory committee and with the approval of the Office of Graduate and Professional Studies. Courses taken in residence at an accredited U.S. institution or approved international institution with a final grade of B or greater may be considered for transfer credit if, at the time the courses were completed, the courses would be accepted for credit toward a similar degree for a student in degree-seeking status at the host institution. Otherwise, the limitations stated in the following section apply. Coursework in which no formal grades are given or in which grades other than letter grades (A or B) are earned (for example, CR, P, S, U, H, etc.) is not accepted for transfer credit.

Courses appearing on the degree plan with grades of D, F or U may not be absolved by transfer work. Credit for thesis research or the equivalent is not transferable. Credit for coursework submitted for transfer from any college or university must be shown in semester credit hours or equated to semester credit hours. An official transcript from the university at which the transfer coursework was taken must be sent directly to the Office of Admissions.

Courses used toward a degree at another institution may not be applied for graduate credit. If the course to be transferred was taken prior to the conferral of a degree at the transfer institution, a letter from the registrar at that institution stating that the course was not applied for credit toward the degree must be submitted to the Office of Graduate and Professional Studies.

Grades for courses completed at other institutions are not included in computing the GPR.

**Limitations on the Use of Transfer, Extension and Certain Other Courses.**

Some departments may have more restrictive requirements for transfer work. If otherwise acceptable, certain courses may be used toward meeting credit-hour requirements for the master's degree under the following limitations.

The maximum number of credit hours which may be considered for transfer credit is the greater of 12 hours or one-third (1/3) of the total hours of a degree plan. The following restrictions apply.

Graduate and/or upper-level undergraduate courses taken in residence at an accredited U.S. institution, or approved international institution with a final grade of B or greater will be considered for transfer credit if, at the time the courses were completed, the student was in degree-seeking status at Texas A&M University, or the student was in degree-seeking status at the institution at which the courses were taken; and if the courses would be accepted for credit toward a similar degree for a student in degree-seeking status at the host institution.

Courses previously used for another degree are not acceptable for degree plan credit.

The maximum number of credit hours taken in post-baccalaureate non-degree (G6) classification at Texas A&M University which may be considered for application to the degree plan is 12.

Any combination of 684, 685, 690 and 693 may not exceed 25 percent of the total credit hour requirement shown on the individual degree plan:

- A maximum of 8 hours of 684 (Professional Internship) and/or
- A maximum of 8 hours of 685 (Directed Studies), and
- Up to 3 hours of 690 (Theory of Research), and
- Up to 3 hours of 693 (Professional Studies).
- A maximum of 2 hours of Seminar (681).
- A maximum of 9 hours of advanced undergraduate courses (300- or 400-level).

For graduate courses of three weeks' duration or less, taken at other institutions, up to 1 hour of credit may be obtained for each five-day week of coursework. Each week of coursework must include at least 15 contact hours.

No credit hours of 691 (Research) may be used.

Continuing education courses may not be used for graduate credit.

Extension courses are not acceptable for credit.

Exceptions will be permitted only in unusual cases and when petitioned by the student's advisory committee and approved by the Office of Graduate and Professional Studies.

**Final Examination**

The candidate must pass a final examination by dates announced each semester or summer term in the Office of Graduate and Professional Studies Calendar. To be eligible to take the final examination, a student's GPR must be at least 3.000 for courses on the degree plan and for all courses completed at Texas A&M which are eligible to be applied to a graduate degree, and no unsolved grades of D, F or U can occur for any course listed on the degree plan. To absolve a deficient grade, the student must repeat the course at Texas A&M University and achieve a grade of C or better. All coursework on the degree plan must have been completed with the exception of those hours for which the student is registered.

A request to hold and announce the final examination must be submitted to the Office of Graduate and Professional Studies a minimum of 10 working days in advance of the scheduled date for the examination. The Office of Graduate and Professional Studies must be notified in writing of any cancellation. A student may be given only one opportunity to repeat the final examination for the master's degree and that must be within a time period that does not extend beyond the end of the
next regular semester (summer terms are excluded). The final exam cannot be held prior to the mid point of the semester if questions on the exam are based on courses in which the student is currently enrolled.

A professional paper, which is a scholarly report of a problem solving nature, will be prepared by each student. The professional paper must be submitted to the student’s advisory committee for approval prior to the final examination. The final examination will cover all work taken on the degree plan and at the option of the committee may be written or oral or both. The examination is conducted by the student’s advisory committee as finally constituted. Persons other than members of the graduate faculty may, with mutual consent of the candidate and the major professor, attend final examinations for advanced degrees. Upon completion of the questioning of the candidate, all visitors must excuse themselves from the proceedings. A positive vote by all members of the graduate committee with at most one dissension is required to pass a student on his or her exam. A department can have a stricter requirement provided there is consistency within all degree programs within a department.

The Report of the Final Examination Form must be submitted with original signatures of only the committee members approved by the Office of Graduate and Professional Studies. If an approved committee member substitution (1 only) has been made, his/her signature must also be submitted to the Office of Graduate and Professional Studies. If necessary, multiple copies of the form may be submitted with different committee member original signatures. If an approved committee member substitution (1 only) has been made, his/her signature must be included on the form submitted to the Office of Graduate and Professional Studies.

**Additional Requirements**

**Residence**

A student must complete 12 credit hours in resident study at Texas A&M University to satisfy the residence requirement for the Master of Clinical Nutrition degree. Students who are employed full-time while completing their degree may fulfill total residence requirements by completion of less-than-full time course loads each semester. In order to be considered for this, the student is required to submit a Petition for Waivers and Exceptions along with verification of his/her employment to the Office of Graduate and Professional Studies.

See Residence Requirements.

**Time Limit**

All degree requirements must be completed within a period of seven consecutive years for the degree to be granted. A course will be considered valid until seven years after the end of the semester in which it is taken. Graduate credit for coursework which is more than seven calendar years old at the time of the final examination (oral or written) may not be used to satisfy degree requirements.

**Foreign Languages**

No specific language requirement exists for the Master of Clinical Nutrition degree.

**Application for Degree**

For information on applying for your degree, please visit the [Graduation section](https://nextcatalog.tamu.edu/courseleaf/approve/?role=Faculty%20Senate).
Deena McConnell (djm) (09/27/18 5:44 pm): 9/27/18 - Comments on documents sent to department; meeting scheduled for 10/2/18 to resolve issues.

Deena McConnell (djm) (10/15/18 9:12 pm): Met with Steve Talcott and Karen Geismar on 10/2 to discuss program. Sent revised agenda item same day for review/comment. Sent revised System form on 10/9 for review/comment.

Deena McConnell (djm) (11/30/18 6:03 pm): Worked with the department to finalize the language in the Agenda Item and System proposal form. The department approved all changes. During the process, the department chose to change the CIP Code to 30.1901.00 which was determined to be the most accurate based on the curriculum. The proposed implementation date was also updated to be Fall 2020. The CIP Code and effective term were changed in the degree form above and the finalized documents were substituted for those originally submitted.

Russell Ramirez (ramirez) (02/05/19 4:46 pm): Does OGAPS need to add language to each section of Program Requirement and Additional Requirements Tabs for Distance Education? Will there be the same requirements for face-to-face students versus distance education students?
Submitted by: Michael K. Young, President
Texas A&M University

Subject: Approval of a New Master of Clinical Nutrition Degree Program and Authorization to Request Approval from the Texas Higher Education Coordinating Board

Proposed Board Action:

Approve the establishment of a new degree program at Texas A&M University (Texas A&M) leading to a Master of Clinical Nutrition (MCN), authorize the submission of this degree program to the Texas Higher Education Coordinating Board (THECB) for approval and certify that all applicable THECB criteria have been met.

Background Information:

The current pathway to becoming a Registered Dietitian Nutritionist (RDN) includes completion of a bachelor’s degree and a dietetic program accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND), followed by a minimum 1,200 hour ACEND-accredited dietetic internship program, and passage of the national credentialing examination. Texas A&M has successful, accredited academic and internship programs meeting these requirements. Beginning in 2024, the minimum academic requirements will increase to completion of a Master’s degree. To meet this new requirement, the College of Agriculture and Life Sciences is proposing a new professional degree program as a MCN, responding to the needs of students seeking to become an RDN with a clinical focus.

Texas A&M and the Department of Nutrition and Food Science are uniquely positioned to implement the proposed MCN which will offer students a strong background in nutritional biochemistry followed by at least 1,200 hours of a clinical dietetic internship with approved preceptors to meet and exceed the national standards for students to become an RDN. The program will capitalize on the current and future need for RDNs in Texas and nationwide to advance nutrition in the treatment and prevention of acute and chronic disease.

A&M System Funding or Other Financial Implications:

New costs over the first five years are anticipated to be $15,000 for supplies and materials for the program. Reallocated costs from the departmental budget will be $364,710 for program administration. Anticipated revenue over the first five years is $2,837,012.
Members, Board of Regents
The Texas A&M University System

Subject: Approval of a New Master of Clinical Nutrition Degree and Authorization to Request Approval from the Texas Higher Education Coordinating Board

I recommend adoption of the following minute order:

“The Board of Regents of The Texas A&M University System approves the establishment of a new degree program at Texas A&M University leading to a Master of Clinical Nutrition.

The Board also authorizes submission of Texas A&M University’s new degree program request to the Texas Higher Education Coordinating Board for approval and hereby certifies that all applicable criteria of the Coordinating Board have been met.”

Respectfully submitted,

Michael K. Young
President

Approval Recommended:  Approved for Legal Sufficiency:

John Sharp
Chancellor

Ray Bonilla
General Counsel

Billy Hamilton
Deputy Chancellor and
Chief Financial Officer

James R. Hallmark, Ph.D.
Vice Chancellor for Academic Affairs
Texas A&M University

Master of Clinical Nutrition
(CIP 30.1901)

Program Review Outline

BACKGROUND & PROGRAM DESCRIPTION

Administrative Unit: College of Agriculture and Life Sciences; Department of Nutrition and Food Science

The current pathway to becoming a Registered Dietitian Nutritionist (RDN) includes completion of a bachelor’s degree and a dietetic program accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND), followed by a minimum 1,200 hour internship, and passage of the national credentialing examination. Texas A&M University (Texas A&M) has successful, accredited academic and internship programs meeting these requirements. Beginning in 2024, the minimum academic requirements will increase to completion of a Master’s degree. To meet this new requirement, the College of Agriculture and Life Sciences is proposing a new professional degree program as a Master of Clinical Nutrition (MCN) at Texas A&M, responding to the needs of students seeking to become an RDN with a clinical focus. The program will capitalize on the current and future need for registered dietitians in Texas and nationwide to advance nutrition in the treatment and prevention of acute and chronic disease. Texas A&M and the Department of Nutrition and Food Science are uniquely positioned to offer a strong background in nutritional biochemistry followed by a mandatory 1,200 hour clinical dietetic internship with approved preceptors to meet and exceed the national standards for students to become an RDN. Students will be able to complete the academic program and internship in two years.

Objectives:

The curriculum is designed to address the core competencies of dietetic internship programs as defined by ACEND to ensure requisite knowledge and skills needed for entry-level practice as an RDN. To attain these skills, the curriculum will provide learning activities in a variety of practice settings based on the ACEND Core Knowledge and Competencies. These competencies are in four general areas of dietetic skills and practice:

1) Scientific and evidence based practice that integrates research translation;
2) Core beliefs, values, attitudes and behaviors that align with our professional Scope of Practice and Code of Ethics;
3) Development and delivery of information, products, and service to individuals, groups and populations; and
4) Application of principles of management and systems in the provision of services to individuals and organizations.

The proposed program is 36 SCH of required and elective courses along with an approved off-site professional internship of at least 1,200 hours.

The proposed implementation date is fall 2020, if not sooner.
Texas A&M certifies that the proposed new degree program meets the criteria under 19 Texas Administrative Code, Section 5.45 in regards to need, quality, financial and faculty resources, standards and costs. New costs during the first five years will not exceed $2 million.

I. NEED

A. Employment Opportunities

According to the Bureau of Labor Statistics, by 2024 employment in nutrition and dietetics is projected to increase by 16% with a projected growth of 28% in Texas. This is in comparison to the expected average growth in employment of 7%. Hospitals are the primary employer of credentialed RDN graduates along with clinical environments such as outpatient care centers and physician offices. Emerging markets for RDNs include individual private practice, insurance and corporate wellness, medical research, and social media. In 2002, the National Institute of Medicine encouraged public and corporate health communities to promote health and prevent disease within its workforce. As a result, employers may seek an RDN to manage and implement worksite wellness programs for disease prevention to lower their cost of health care. Students are trained with a strong nutritional biochemistry and physiology focus and possess counseling skills to motivate behavior changes, problem solve, be a health coach, and assess fitness.

Additional trends that will influence the future demand for RDNs include increasing consumer demands for health-promotion, preventive care, innovative and sustainable food systems, enhanced models for disease prevention, consultation for complementary and alternative dietary treatments, and public advocacy to address health disparities. These are characteristics of a practicing professional and are key elements of training in a graduate professional program. The proposed MCN program will develop both technical and clinical skills along with critical thinking skills to successfully train the next generation of dietitians. The impact of medical science, technology, and changes to healthcare systems on dietetic practice will also result in a need for a higher level of practice. The knowledge base and skills for an entry-level RDN must be advanced in preparation for an evolving healthcare workforce. Therefore, a rigorous graduate curriculum is needed to prepare future dietetic practitioners. Effective in 2024 those sitting for the national credentialing exam for RDNs must have a minimum of a graduate degree. The future model of the dietetics education proposed by ACEND includes a graduate curriculum, followed by or combined with experiential learning, which includes a dietetic internship.

The MCN program as proposed, with a focus on clinical practice over a research focus, will prepare future entry-level dietetics practitioners at a level beyond the core knowledge provided in current undergraduate programs. This professional degree is akin to other health professions where academics are put into clinical practice as part of the pedagogy of the program.

B. Projected Enrollment

Based on current ACEND accreditations, the Texas A&M Dietetic Internship Program is limited to adding 12 new students per year. In order to increase internship capacity and
partner with outside entities that do not have a graduate program, Texas A&M has entered into a collaboration with Baylor University Medical Center Dietetic Internship Program (Baylor). Baylor operates an ACEND accredited internship program without a related graduate degree, which also has a maximum capacity of 12 new students per year. With the collaboration, Texas A&M students will be able to complete their internship at either Texas A&M or Baylor, doubling the capacity of the MCN program to 24 new students per year, resulting in a steady state of up to 48 total students in the program over a 2-year matriculation. To retain high quality Texas A&M undergraduate students pursuing their RDN, the MCN program will establish an early admission program prior to the national dietetic internship match in an effort to provide reassurance of being accepted into an accredited internship. Further growth in the program will rely on development of additional collaborations with non-degree granting dietetic internship programs, availability of rotations sites for the supervised practice, and application with ACEND for additional intern positions in the Texas A&M Dietetic Internship Program, so we would advance our numbers incrementally.

C. Existing State Programs

There are a number of existing graduate programs focusing on nutrition, including programs at University of Texas-Southwestern Medical Center in Dallas, University of Texas Medical Branch (UTMB), Texas Woman’s University, Texas Tech University, and Texas A&M. However, the proposed program, which is designed to meet the new RDN requirements, is somewhat unique because the focus is on clinical practice, rather than bench-top research, and the degree requirements include both an academic curriculum and an accredited dietetic internship. Students graduating with the proposed MCN degree will be eligible to take the RDN exam, as it includes both the required academics and internship in one program. Of the existing state programs, UTMB is the only one that offers this same model. The proposed MCN degree will be the second.

II. QUALITY & RESOURCES

A. Faculty

No new faculty will be required. The curriculum are derived from current courses offered by Nutrition and Food Science core faculty and support faculty from other departments including Health and Kinesiology, Biochemistry and Biophysics, Genetics, and Statistics.

B. Program Administration

The Associate Department Head of Nutrition and Food Science will provide administrative oversight.

C. Other Personnel

No new personnel will be required. The current dietetics internship coordinator will continue to provide leadership and serve as a liaison between students and internship
preceptors as part of the assigned duties for this position. The current department graduate academic advisor/recruiter and administrative assistant will provide program assistance.

D. Supplies, Materials

A moderate amount of basic office supplies and program support items will be required including print materials, brochures, and recruiting posters totaling $15,000.

E. Library

All necessary library resources are already in place, both at the University level and via the internet.

F. Equipment, Facilities

The participating departments have adequate space in existing courses to accommodate the increase in graduate student numbers and all current facilities are sufficient to accommodate this program. No additional equipment is needed.

G. Accreditation

The dietetic track offered as part of the curriculum is currently reviewed and accredited every 7 years by ACEND. The Texas A&M Dietetic Internship Program is reviewed and accredited every 7 years by ACEND. The Commission on Dietetic Registration (CDR) administers the national credentialing exam to eligible students from accredited programs. To maintain the ACEND accreditation past 2024, our students must have an earned graduate degree to be eligible for the national credentialing exam.

III. NEW 5 YEAR COSTS & FUNDING SOURCES

<table>
<thead>
<tr>
<th>NEW FIVE-YEAR COSTS</th>
<th>SOURCES OF FUNDING</th>
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<td>Faculty</td>
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<td>Program Administration</td>
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<td>$272,270</td>
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<td>Graduate Assistants</td>
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<td>$151,600</td>
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<td>Supplies &amp; Materials</td>
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<td>$15,000</td>
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<td>Library &amp; IT Resources</td>
<td>Designated Tuition</td>
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<td>$448,615</td>
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<td>Equipment, Facilities</td>
<td>Other Funding:</td>
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<td>Estimated 5-Year Costs</td>
<td>Clinical Internship Fee</td>
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<td>$379,710</td>
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<td>Estimated 5-Year Revenues</td>
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Texas Higher Education Coordinating Board - General Academic Institution - Program Funding Estimation Tool

Instructions
Insert the credit hours projected to be taken for all students per semester into the appropriate field. Select the discipline and level from the drop-down menus. The spreadsheet will estimate the total amounts.

Assumptions
1. Calculations are based on hours taken, not Full-Time Student Equivalent (FTSE) or headcount. This model accounts for credit hours taken at different academic levels, across various disciplines, and at different loads during the fall, spring, and summer.
2. Hours used to calculate formula funding are based on the summer and fall of even numbered years and the spring of odd numbered years. For example, summer and fall 2010 and spring 2011 (Base Year 2011) are used to allocate funds for both.
3. The program's formula funding forecast will include hours from the various disciplines that a student must take to complete the degree, not just hours from the named discipline of the program.
4. The level of the hours funded is the level of the course or the student's enrollment classification, whichever is lowest.
5. The program's new cost to the state is the funding rate reduced by the institution's estimated statutory tuition.
6. Funding is not generated for the first two years the program generates semester credit hours.
7. The funding rate is held constant into future years.
8. This model's information and assumptions are subject to change, and the estimates are not a guarantee of funding.

Designated Tuition Rate $ 147.96
Statutory Tuition Rate $ 50.00
All Funds Rate $ 55.39

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<th>Five-Year Total</th>
<th>FY 2019</th>
<th>FY 2020</th>
<th>FY 2021</th>
<th>FY 2022</th>
<th>FY 2023</th>
<th>FY 2024</th>
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<td>Total Student-Based Funding</td>
<td>$ 1,782,301</td>
<td>$ -</td>
<td>$ 78,589</td>
<td>$ 205,718</td>
<td>$ 455,090</td>
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<td>Student Fees (TEC, Chapters 51, 54, and 55)</td>
<td>$ 416,233</td>
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<td>$ 28,005</td>
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<td>Board Authorized Tuition</td>
<td>$ 151,600</td>
<td>$ -</td>
<td>$ 10,200</td>
<td>$ 26,700</td>
<td>$ 36,900</td>
<td>$ 38,900</td>
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<td>Designated Tuition</td>
<td>$ 448,615</td>
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<td>$ 30,184</td>
<td>$ 79,011</td>
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<td>$ 115,113</td>
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<td>General Revenue Estimate (State’s Portion)</td>
<td>$ 614,253</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>$ 170,782</td>
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<td>Statutory Tuition Estimate (Student’s Portion)</td>
<td>$ 151,600</td>
<td>$ -</td>
<td>$ 10,200</td>
<td>$ 26,700</td>
<td>$ 36,900</td>
<td>$ 38,900</td>
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Note: The table above converts the table below from calendar year to fiscal year. The general revenue presented above represents the estimated allocated portion based on the “Base Year.” See assumption 2.
<table>
<thead>
<tr>
<th>Course List: Discipline</th>
<th>Level</th>
<th>FY 2019</th>
<th>FY 2020</th>
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<tbody>
<tr>
<td>Science</td>
<td>Masters</td>
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<td>Liberal Arts</td>
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<thead>
<tr>
<th>Estimated Formula Funding: Discipline</th>
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<th>FY 2019</th>
<th>FY 2020</th>
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<th>Student Fees</th>
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<th>FY 2020</th>
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<tr>
<td>Year</td>
<td>Spring</td>
<td>Summer</td>
<td>Fall</td>
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<tr>
<td>------</td>
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<td>------</td>
</tr>
<tr>
<td>FY 2021</td>
<td>$162,503</td>
<td>$1,158</td>
<td>$280,503</td>
</tr>
<tr>
<td>FY 2022</td>
<td>$198,614</td>
<td>$63,195</td>
<td>$310,596</td>
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<tr>
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<td>$198,614</td>
<td>$63,195</td>
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<tr>
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<td>$198,614</td>
<td>$63,195</td>
<td>$310,596</td>
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</tbody>
</table>

**Base Year**

<table>
<thead>
<tr>
<th>Year</th>
<th>Spring</th>
<th>Summer</th>
<th>Fall</th>
</tr>
</thead>
<tbody>
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<td>FY 2021</td>
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<tr>
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<td>$198,614</td>
<td>$63,195</td>
<td>$310,596</td>
</tr>
</tbody>
</table>
October 6, 2017
Re: New Degree: Master of Clinical Nutrition

To: Dr. Carol Filerke, Provost and Executive Vice President
Through: Dr. David Reed, Associate Dean for Graduate Programs and Faculty Development
College of Agriculture and Life Sciences

From: Dr. Steve Talcott, Associate Department Head, Department of Nutrition and Food Science

1. Degree Title: Master of Clinical Nutrition
2. Level: Master’s Degree
3. Proposed CIP Code: 19.0501
4. Proposed Proposal Submission: October 2017
5. Program Description: The College of Agriculture and Life Sciences is proposing a new professional degree program as a Master of Clinical Nutrition for Fall 2019 for Texas A&M University, College Station, TX. The program capitalizes on the current and future need for registered dietitians in Texas and nationwide, to advance nutrition in the treatment and prevention of acute and chronic disease. Starting in 2024, The Accreditation Council for Education in Nutrition and Dietetics and the Commission on Dietetic Registration will require at least a Master’s degree to be administered the national credentialing exam to become a Registered Dietitian Nutritionist (RDN). Texas A&M University and the Department of Nutrition and Food Science are uniquely positioned to offer a strong background in nutritional biochemistry followed by a mandatory clinical dietetic internship with approved preceptors to meet and exceed the national standards for our students to become an RDN.
6. Justification and Need: According to the Bureau of Labor Statistics, by 2024 employment in nutrition and dietetics is projected to increase by 16% with a projected growth of 28% in Texas. Hospitals are the primary employer of credentialed RDN graduates, but other employers are seeking these individuals including clinical environments such as outpatient care centers and physician offices. Some emerging markets for RDNs include individual private practice, insurance and corporate wellness, medical research, and social media. The proposed degree program is a focus on clinical nutritional practice and will help future dietetics practitioners become nationally certified in their field. The professional groups that oversee the certification agree that an advanced degree is necessary to address the increased knowledge requirements from improved critical thinking to acquisition of greater clinical practice skills. The professional degree is akin to other health professions where academics are put into clinical practice as part of the pedagogy of the program. In order for dietetics to remain abreast with changes in practice, healthcare, and other health professionals our clinical dietetic practitioners will require the proposal professional master’s degree to remain accredited.
7. Anticipated Costs: A 5-year cost of this program is estimated at $774,750 that includes personnel costs for a faculty coordinator, an advisor/recruiter, administrative support, Texas AgriLife faculties that teach existing courses and provide high impact experiences, and supplies/materials for an operating budget.

Implementation Date: Fall 2019

Best Regards,
Dr. Steve Talcott

220F Centex A
1500 Research Parkway
MS 2253
College Station, TX 77843-2253

Email: ktalcott@tamu.edu
Phone: 979-862-4056
Fax: 979-862-3678
Web: http://mscc.tamu.edu

2003-07-08
2003-07-08
**Texas Higher Education Coordinating Board**  
**Texas Public General Academic and Health-Related Institutions**

**Proposal for a New Bachelor’s or Master’s Degree Program**

**Directions:** Texas public institutions of higher education must complete this form to propose: (1) Bachelor’s or Master’s Degree programs in engineering; (2) Bachelor’s or Master’s degree programs that have an estimated cost of more than $2 million in the first five years of operation; and/or (3) Bachelor’s or Master’s degree programs that do not meet the certification requirements set forth in Texas Administrative Code (TAC), Title 19, Chapter 5, Subchapter C, Section 5.44 (a) (3).

Institutions should notify the Division of Academic Quality and Workforce of its intent to plan a new engineering program with a letter submitted through the Document Submission Portal prior to submission of the Proposal for a New Bachelor’s or Master’s Degree Program. The letter should include the title, degree designation, CIP code of the program, the anticipated submission date of the proposal, and a brief description of the program. Address the letter to the Assistant Commissioner of the Academic Division of Academic Quality and Workforce.

In completing the proposal, the institution should refer to the document Standards for Bachelor’s and Master’s Degree Programs, which prescribes specific requirements for new degree programs.

This form requires the signatures of: (1) the Chief Executive Officer, certifying adequacy of funding for the new program, the notification of other Texas public institutions of higher education, and adherence to Texas Education Code (TEC) Sections 61.822 through 61.823; (2) the Chief Financial Officer, certifying the accuracy of funding estimates for the new program; and (3) a member of the Board of Regents (or designee) certifying Board approval.

**Contact:** Division of Academic Quality and Workforce, 512-427-6200.

### Administrative Information

1. **Institution Name and Coordinating Board Accountability Group:**
   
   Texas A&M University

2. **Proposed Program:**
   
   *Show how the proposed program would appear on the institution’s Program Inventory (e.g., Bachelor of Business Administration degree with a major in Accounting).*

   Master of Clinical Nutrition

3. **Proposed CIP Code:**
   
   *List of CIP Codes may be accessed online at www.txhighereddata.org/Interactive/CIP/.

   Include justification if the proposed program name is not included in the Texas Classification of Instructional Programs.

   30.1901.00

4. **Semester Credit Hours Required:**
   
   *Bachelor’s degree programs should not exceed 120 semester credit hours (SCH). If the number of SCH exceeds 120 for a bachelor’s degree program, the institution must submit documentation*
explaining the compelling academic reason. Master’s degree programs do not have semester credit hour restrictions; however, 30 to 36 SCH is common.

36 SCH

5. Location and Delivery of the Proposed Program:
Provide the location of instruction and how the proposed program will be delivered to students (e.g., Instructed on the main campus in Lubbock, face-to-face).

Instruction on the main campus of Texas A&M University, College Station, face-to-face with an off-campus clinical internship.

6. Administrative Unit:
Identify where the proposed program would fit within the organizational structure of the institution (e.g., Department of Electrical Engineering within the College of Engineering).

Department of Nutrition and Food Science within the College of Agriculture and Life Sciences

7. Program Description:
Describe the proposed program.

The Master of Clinical Nutrition (MCN) is a non-thesis degree with a course emphasis in nutritional biochemistry and clinical nutrition that requires a 1,200 hour internship through the Accreditation Council for Education in Nutrition and Dietetics (ACEND) at an approved preceptor. This degree program will meet pending ACEND requirements that a registered dietitian must have a graduate degree prior to taking a national credentialing examination.

8. Proposed Implementation Date:
Provide the date that students would enter the proposed program (MM/DD/YYYY).

08/01/2020 (or the official start date of the fall 2020 semester), if not sooner.

9. Institutional and Departmental Contacts:
Provide contact information for the person(s) responsible for addressing any questions related to the proposal.

1. Name: Dr. Steve Talcott
   Title: Professor and Associate Department Head, Nutrition and Food Science
   E-mail: stalcott@tamu.edu
   Phone: 979-862-4056

2. Name: Ms. Karen Geismar, M.S.
   Title: Lecturer, Registered Dietitian, and Dietetic Internship Director
   E-mail: ksgeismar@tamu.edu
   Phone: 979-845-5713

10. Notification to Area Institutions:
Proposed Bachelor’s or Master’s Degree Program Information

I. Need

A. Job Market Need

The current pathway to becoming a Registered Dietitian Nutritionist (RDN) includes completion of a bachelor’s degree and a dietetic program accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND), followed by a minimum 1,200 hour internship, and passage of the national credentialing examination. Texas A&M University (Texas A&M) has successful, accredited academic and internship programs meeting these requirements. Beginning in 2024, the minimum academic requirements will increase to completion of a Master’s degree. To meet this new requirement, the College of Agriculture and Life Sciences is proposing a new professional degree program as a Master of Clinical Nutrition (MCN) at Texas A&M, responding to the needs of students seeking to become an RDN with a clinical focus.

According to the Bureau of Labor Statistics, by 2024 employment in nutrition and dietetics is projected to increase by 16% with a projected growth of 28% in Texas. This is in comparison to the expected average growth in employment of 7%. Hospitals are the primary employer of credentialed RDN graduates, but other employers are seeking these individuals including clinical environments such as outpatient care centers and physician offices. Some emerging markets for RDNs include individual private practice, insurance and corporate wellness, medical research, and social media. In 2002 the National Institute of Medicine encouraged public and corporate health communities to join forces to promote health and prevent disease within its workforce. As a result, employers may seek out an RDN to manage and implement worksite wellness programs for disease prevention to lower the cost of health care within the organization. RDNs are trained with a strong nutritional biochemistry and physiology focus and possess counseling skills to motivate behavior changes, problem solve, be a health coach, and assess fitness. These skills are acquired and developed in our dietetics curriculum and internship programs.

Practicing RDNs have an ongoing requirement for accurate interpretation and translation of research into dietetic practice. They have a professional responsibility to understand research methods, critically evaluate research methods and outcomes, and create effective intervention plans that optimize health outcomes. Additional trends that will impact the future demand for RDNs include increasing consumer demands for health-promotion, preventive care, innovative and sustainable food systems, enhanced models for disease prevention, consultation for complementary and alternative dietary treatments, and public advocacy to address health disparities. These are characteristics of a practicing professional, and are key elements of training in a graduate professional program. The proposed Master of Clinical Nutrition (MCN) program will develop both technical and clinical skills along with critical thinking skills to successfully train the next generation of dietitians.

The impact of medical science, technology, and changes to healthcare systems on dietetic practice is also expected to result in a need for a higher level of practice. The knowledge base and skills for an entry-level RDN must be more advanced to be prepared for this rapidly changing and evolving workforce. As such, a more rigorous curriculum above that of a bachelor’s degree is required to prepare future dietetic practitioners. To address this, effective in 2024 those sitting for the credentialing exam for RDNs must have a minimum of a graduate degree, rather than the current requirement of a bachelor’s degree. The future model of the dietetics education proposed by ACEND includes a graduate curriculum, followed by or combined with experiential learning, which includes a dietetic internship supervised practice. This future model indicates that a Master’s degree is necessary for a generalist or entry-level practitioner.

The Council on Future Practice (CFP), established within the Academy of Nutrition and Dietetics, assisted in the identification of educational and credentialing needs to ensure educational programs
New Program Request Form for Bachelor’s and Master’s Degrees

adequately prepare dietetic students for the changes in patient/client needs. In the 2017 Visioning Report: A Preferred Path Forward for the Nutrition and Dietetics Profession, CFP identified drivers of change in dietetics practice that would impact the profession and the education of future practitioners. Parameters identified that will impact the dietetics practice include diverse and complex medical diagnosis of patients, an aging population, impact of nutrigenomics on nutrition care, increased emphasis on outcomes research, changes in technology and information systems, and evolution of health professional curriculum models that include interprofessional education (IPE). These factors are expected to influence dietetics education by increasing curriculum requirements that can only be fully met via an advanced degree.

The MCN program proposed, with a focus on clinical practice over a research focus, will prepare future dietetics practitioners at the entry-level beyond the core knowledge provided in our current undergraduate programs. The professional degree we propose is akin to other health professions where academics are put into clinical practice as part of the pedagogy of the program.

B. Existing Programs

There are several dietetic internship programs in Texas that students may apply to, depending on if a graduate degree is available. Among the options are whether completion of course work is expected prior to or combined with the dietetic internship (known as the supervised practice), if graduate credit is offered for completion of the supervised practice, or an internship-only option that results in no graduate credit or degree. Texas A&M currently offers two options. First, eligible candidates may complete the dietetic internship-only option. Second, Texas A&M offers a M.S. in Nutrition degree to be completed before the supervised practice. The 1200-hour dietetic internship or supervised practice is scheduled based on the student’s course work and research schedule, but generally happens following the graduate work. Interns in this option are able to take the RDN exam before they earn their M.S. degree.

Per ACEND, there are twelve public programs in Texas that offer a graduate degree program associated with a dietetic internship program, including the current option offered at Texas A&M. What makes this proposed MCN unique from the current M.S. in Nutrition is that the dietetic internship component is combined with the master’s curriculum in a professional program and its focus will be on clinical dietetics. Completion of both the graduate professional degree and approved internship will be required to be eligible for the national RDN exam. Based on information from ACEND, only three programs in Texas offer this combined graduate degree-dietetic internship program. One of these institutions, University of Texas Medical Branch (UTMB) in Galveston offers a combined M.S. degree with Dietetic Internship (MS/DI) program with a clinical emphasis that most resembles the currently proposed MCN program. The other programs have an emphasis in community nutrition or military skills. The UTMB Dietetic Internship Program was approved in 2016 and has capped their enrollment at 20 students. Because of a greater demand for a graduate program combined with a dietetic internship program, UTMB has plans to increase enrollment to 30 students in the near future. UTMB is regionally distanced from Texas A&M, so there should be no duplication of resources for supervised practice rotation sites. Also similar to the MCN program, dietetic internship programs can be found that are affiliated with colleges and universities that allow interns to work towards a master’s degree and then allows interns to take the RDN exam after their supervised practice, but prior to completing the graduate degree. Per ACEND reporting, eight programs in Texas offer this path to becoming an RDN and only three of these programs offer an internship program with an emphasis in clinical nutrition. Texas A&M is one of these three and Texas Woman’s University in Houston and Dallas are the other two.

We anticipate that once the 2024 mandate from ACEND for a minimum of a master’s degree to become an RDN comes into effect, that demand for our proposed program will increase. Therefore, having similar programs in Texas is not anticipated to negatively affect the enrollment of either program with qualified candidates capable of passing both the rigors of graduate school and a professional internship rotation. Data reported by ACEND indicate that the number of qualified applicants surpasses that of all available
dietetic internship positions. Per a 2018 ACEND report, the number of total applicants for the spring dietetic internship match was 4,724 applicants against 3,609 internship positions. These positions include dietetic internship programs without a graduate degree and dietetic internship programs combined with a graduate degree. Our focus on a professional program in clinical nutrition, over a traditional research-based graduate degree in nutrition, is a major distinction for the proposed MCN degree.

C. Student Demand
The application and appointment process for a majority of dietetic internship programs includes a formal online application process, followed by computer matching to the program of the applicant’s choice. This application and acceptance process is competitive, as there are often more applicants than program positions. In the last 5 years, the number of national applicants to dietetic internship programs has increased by 16.8% but in 2016 the acceptance rate into dietetic internship programs was only 50%, according to ACEND. The need for accredited dietetic internship programs has grown. With future requirements for a graduate degree, the combination of the dietetics internship and graduate degree as coordinated programs will be the norm.

D. Enrollment Projections
Based on current ACEND accreditations, the Texas A&M Dietetic Internship Program is limited to adding 12 new students per year. In order to increase internship capacity and to partner with outside entities that do not have a graduate program, Texas A&M has entered into a collaboration with Baylor University Medical Center Dietetic Internship Program (Baylor). Baylor operates an ACEND accredited internship program without a related graduate degree, which also has a maximum capacity of 12 new students per year. With the collaboration, Texas A&M students will be able to complete their internship at either Texas A&M or Baylor, doubling our current capacity of the MCN program to 24 new students per year, resulting in a steady state of up to 48 total students in the program over a 2-year matriculation. To retain high quality Texas A&M undergraduate students pursuing their RDN, the MCN program will establish an early admission program prior to the national dietetic internship match in an effort to provide reassurance of being accepted into an accredited internship. Further growth in the program will rely on development of additional collaborations with non-degree granting dietetic internship programs, availability of rotations sites for the supervised practice, and application with ACEND for additional intern positions in the Texas A&M Dietetic Internship Program, so we would advance our numbers incrementally.

Table 1. Enrollment Projections

<table>
<thead>
<tr>
<th></th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total New Students</td>
<td>8</td>
<td>18</td>
<td>24</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>Attrition</td>
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<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Cumulative Headcount</td>
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<td>41</td>
<td>47</td>
<td>47</td>
</tr>
<tr>
<td>FTSE</td>
<td>8</td>
<td>25</td>
<td>41</td>
<td>47</td>
<td>47</td>
</tr>
<tr>
<td>Graduates</td>
<td>0</td>
<td>7</td>
<td>17</td>
<td>23</td>
<td>23</td>
</tr>
</tbody>
</table>

Projected headcount is based upon an estimated 2 year graduation rate of >95%, comparable to graduation rates of our existing graduate programs.

E. Student Recruitment
Qualified applicants for the proposed MCN Program, and all dietetic internship programs, include only those individuals that have completed an ACEND accredited dietetics curriculum at the undergraduate level. Recruitment efforts for this new program include but are not limited to a dedicated web site for the MCN program, attendance at a national dietetic internship fair, attendance at the annual Texas A&M
dietetic internship fair, creation of promotional videos, and national advertisements. To retain high quality Texas A&M undergraduate students pursuing their RDN, the MCN program will establish an early admission program prior to the national dietetic internship match to provide reassurance of being accepted into an accredited internship program.

The College of Agriculture and Life Sciences at Texas A&M also has an Assistant Dean for Student Success. Working with recruiters across the state, the MCN program will be part of recruiting materials as a new major for those wishing to become an RDN. Because the path to this credential begins at the undergraduate level, we will also work closely with our undergraduate dietetics faculty to promote the MCN program. We will also begin outside recruiting efforts for students in dietetics programs that do not offer or have not yet implemented a graduate degree in the area of nutrition and/or dietetics, such as Prairie View A&M University, and assist them in meeting ACEND standards. We will also work with the College of Agriculture and Life Sciences in undergraduate recruiting in Houston, San Antonio, and south Texas regions of the state with higher populations of both African American and Hispanic students. By recruiting minority undergraduate students into dietetics, they have a higher probability of a match (student to program) for their dietetic internship and acceptance into a graduate class cohort.

II. Quality

A. Degree Requirements
The summary of the proposed MCN program is for a non-thesis track (36 credit hours) that includes a prescriptive core of courses, yet an ability for electives in the nutritional sciences graduate program. Students will take class on-campus at Texas A&M University in their first year and the second year will require an approved off-site clinical practice dietetic internship program.

<table>
<thead>
<tr>
<th>Table 2. Semester Credit Hour Requirements by Category</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Category</strong></td>
</tr>
<tr>
<td>General Education Core Curriculum (Bachelor’s degree program only)</td>
</tr>
<tr>
<td>Required Courses</td>
</tr>
<tr>
<td>Prescribed Electives</td>
</tr>
<tr>
<td>Electives</td>
</tr>
<tr>
<td>Other (Specify, e.g., internships, clinical work)</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
</tr>
</tbody>
</table>

B. Curriculum

For professional integrity and credentialing reasons, an eminent need exists for future dietitians in America to have a graduate degree prior to sitting for the national exam to become an RDN. Texas A&M University, the College of Agricultural and Life Sciences, and the Department of Nutrition and Food Science (NFSC) are on the cutting edge of training these future dietitians. A new graduate professional program in clinical nutrition allows not only our own students, but also students from other universities without a graduate program, to benefit from the expertise on our campus. The MCN will be a professional graduate program with required 36 SCH of coursework and a 1,200-hour dietetic internship experience that meets ACEND credentialing standards and requirements. To ensure placement for the required clinical internship, candidates for this professional degree will be limited to those who are selected into the Texas A&M Dietetic Internship Program and the Baylor University Medical Center Dietetic Internship Program. Acceptance into graduate school at Texas A&M is also required to be accepted into either internship programs. The MCN will combine a rigorous curriculum on the Texas A&M campus
This proposed MCN degree will combine rigorous nutrition education in nutritional biochemistry and other related disciplines in a student’s first year that would allow for a supervised clinical practice in the second year. The curriculum is organized into key competency clusters with core classes in nutritional biochemistry (26 credits), directed study practice (6 credits), and a clinical internship practicum (4 credits). A maximum of 9 credit hours of combined NUTR 685 and NUTR 684 may be taken or not more than 4 credit hours of NUTR 684 and not more than 8 credit hours of NUTR 685. Transfer of graduate credits will be evaluated on a case-by-case basis and accelerated advancement or competency-based education is generally not acceptable for a graduate level program.

<table>
<thead>
<tr>
<th>Table 3. Required/Core Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prefix and Number</td>
</tr>
<tr>
<td>NFSC 642</td>
</tr>
<tr>
<td>NFSC 630</td>
</tr>
<tr>
<td>GENE 603</td>
</tr>
<tr>
<td>KINE 637/638</td>
</tr>
<tr>
<td>STAT 601</td>
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<td>NFSC 681</td>
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<tr>
<td>NFSC 684</td>
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<tr>
<td>NFSC 685</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Table 4. Prescribed Elective Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prefix and Number</td>
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<tr>
<td>NFSC 610</td>
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<tr>
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<tr>
<td>NFSC 618</td>
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<td>NFSC 641</td>
</tr>
<tr>
<td>NFSC 645</td>
</tr>
<tr>
<td>NFSC 650</td>
</tr>
<tr>
<td>NFSC 689</td>
</tr>
<tr>
<td>NFSC 689</td>
</tr>
</tbody>
</table>

C. Strategic Plan and Marketable Skills

The MCN program is in direct alignment with the 60x30TX mission to provide marketable skills in dietetics, through a national credentialing exam, that will make them competitive and more importantly employable. Without the MCN program, Texas A&M will not be able to adequately fill the educational needs to help solve crucial diet and lifestyle-based health care issues. The MCN program will provide both curriculum-based and supervised practice skills to meet the Texas Higher Education Plan by the year 2030 to produce RDNs.

The primary impetus for the MCN Program is the change in the minimum degree requirement to sit for the RDN exam by 2024. At that time, a minimum of a Master’s degree will be required of all dietetic internship graduates to be a candidate for the RDN exam necessary to become a registered dietitian. Future employers will modify position requirements to correspond with the requirements of the Commission on Dietetic Registration (CDR), which administers the RDN exam. Therefore, the MCN will improve the marketability of graduates of this program in a future career in dietetics where job...
descriptions will include this same minimum requirement. While this program does not require a thesis for graduation, students in the MCN program will still be required to complete a rigorous curriculum at a strong research institution and a defend a final research paper; all of which will enhance critical thinking skills, interpretation of research, and appropriate translation of research to practice. These are desired skills in dietetics, including clinical dietetics, as health care continues to support evidence-based practice for improved patient outcomes and cost containment. This is in addition to the professional skills the interns currently develop through the dietetic internship program by working under a professional in a variety of dietetic practice settings. The timeline of the curriculum indicates that a student could graduate within 2 years of starting the program, one year less than the current graduate degree-dietetic internship program with a thesis. This decreases the time the student depends on financial aid or other monetary assistance and allows them to enter the job market sooner.

D. Faculty
The curriculum will be derived from current courses offered by NUTR, HLTH, and KINE. All teaching faculty on the graduate faculty of NFSC are core faculty to the program, led by Ms. Karen Geismar and administered by Dr. Steve Talcott; and support faculty members are predominately tenured associate and full professors and have backgrounds specific to the field of nutrition and health. All meet SACSCOC requirements for their graduate faculty status.

Table 5. Core Faculty

<table>
<thead>
<tr>
<th>Name and Rank of Core Faculty</th>
<th>Highest Degree and Awarding Institution</th>
<th>Courses Assigned in Program</th>
<th>% Time Assigned to Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Karen Geismar, Lecturer</td>
<td>M.S. Texas Women’s University</td>
<td>Dietetic Internship Director</td>
<td>20%</td>
</tr>
<tr>
<td>Stephen Talcott, Professor</td>
<td>Ph.D. University of Arkansas</td>
<td>Administrative Oversight</td>
<td>20%</td>
</tr>
<tr>
<td>Chaodong Wu, Associate Professor</td>
<td>Ph.D. Beijing Medical University</td>
<td>NUTR 642</td>
<td>5%</td>
</tr>
<tr>
<td>Guoyao Wu, Professor</td>
<td>Ph.D. University of Alberta</td>
<td>NUTR 641</td>
<td>5%</td>
</tr>
<tr>
<td>Rosemary Walzem, Professor</td>
<td>Ph.D. U.C. Davis</td>
<td>NUTR 645/650</td>
<td>5%</td>
</tr>
<tr>
<td>Shaodong Guo, Associate Professor</td>
<td>Ph.D. Huazhong Agricultural Univ.</td>
<td>NUTR 630</td>
<td>5%</td>
</tr>
<tr>
<td>Stephen Smith, Professor</td>
<td>Ph.D. U.C. Davis</td>
<td>NUTR 618</td>
<td>5%</td>
</tr>
<tr>
<td>Yuxiang Sun, Assistant Professor</td>
<td>Ph.D. University of Manitoba</td>
<td>NUTR 689</td>
<td>5%</td>
</tr>
<tr>
<td>Susanne Talcott, Associate Professor</td>
<td>Ph.D. University of Florida</td>
<td>NUTR 610</td>
<td>5%</td>
</tr>
</tbody>
</table>

Table 6. Support Faculty

<table>
<thead>
<tr>
<th>Name and Rank of Support Faculty</th>
<th>Highest Degree and Awarding Institution</th>
<th>Courses Assigned in Program or Other Support Activity</th>
<th>% Time Assigned to Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Darren Cline, Professor</td>
<td>Ph.D. Colorado State Univ.</td>
<td>STAT 601</td>
<td>5%</td>
</tr>
<tr>
<td>Christopher Woodman, Professor</td>
<td>Ph.D. Univ. Arizona</td>
<td>KINE 637/638</td>
<td>5%</td>
</tr>
<tr>
<td>Jae Cho,</td>
<td>Ph.D. State University of</td>
<td>BICH 601</td>
<td>5%</td>
</tr>
</tbody>
</table>
E. Library Resources

The MCN program is not expected to require any additional library resources beyond those already available. Students in the MCN Program will be on campus for the first year of the program and continue as registered students while completing their internship. As such, they will have access to the current resources, including librarian assistance, book loan, access to peer-reviewed journal and other publications (ie. “Get It For Me” for journals not licensed with Texas A&M), and all online library resources. Adequacy of resources has been verified by Ester Carrigan, MLS, AHIP, Texas A&M Librarian and Associate Dean and Director of the Medical Sciences Library who provided the following summary:

General Assessment of Library Resources

The University Libraries has an extensive collection of information resources to support this new MCN program. We do not anticipate major expenditures for new resources required to support the program. Students and faculty in this program will have full access to all resources and services of the Texas A&M University (TAMU) Medical Sciences Library, as well as to the extensive basic life sciences resources that are provided by the general University Library to support undergraduate and graduate level programs. Conservative estimates of health/life science resources licensed/purchased by the Libraries include over 18,000 electronic journals, over 25,000 electronic books and over 500 databases, which students and faculty can access from anywhere with internet access. The Sterling C. Evans Library also has extensive collection resources in the basic science areas that would support this program, such as organic chemistry and biochemistry. Since the TAMU Medical Sciences Library also supports the professional programs of the Texas A&M Health Science Center, the scope of their resources will effectively cover the more clinical dimensions of the MCN program such as nutrition in health and disease, public health and population aspects of nutritional disorders and therapeutic nutrition.

Given the size and scope of existing collections, specific plans to enhance library holdings for the MCN program are not needed at this time. The standard opportunities to request additions to the collections should be adequate. Faculty and staff can suggest the purchase of a resource on the MSL or University Libraries web site, through email, or by phone call; librarians evaluate the request and purchase any item in scope, sending notification to the requestor. The University Libraries offer a free and extremely well-regarded document delivery and interlibrary loan service to faculty, students and staff, Get It For Me, which provides prompt electronic access to virtually any needed resource not owned or held electronically by the Library. The Medical Sciences Library (MSL) and the general University Library have also contracted with e-book vendors to include bibliographic records for newly published in-scope resources into the library online catalog. Students and faculty have full access to these resources. A predetermined level of use of these online resources results in their permanent addition to our electronic collections. This eliminates any delay in access to needed resources and helps to tailor our collections to the needs of our users.

Students have 24-hour access to online resources, plus access to services beyond the hours when physical facilities are open and staffed. All electronic resources are available whenever and wherever the resources are needed by means of a proxy server and authentication service. Since the library preference has long been for purchasing electronic resources, these are available online to remote students. The Get It for Me service, mentioned above, is also available through the web. Students, faculty and staff can ask for
assistance and communicate with the library staff through the library web site, through email, or by phone call. There is also an online reference service available extended hours where users can chat with library staff. MSL has a designated librarian liaison for the programs it serves. The librarian currently identified to be the liaison librarian for the Department of Nutrition and Food Sciences will work as part of an experienced team of liaison librarians who work closely with the faculty, staff, and students. We are also currently recruiting for an additional liaison librarian to serve programs within the College of Agriculture and Life Sciences. These librarians, all of whom have faculty status, teach students and faculty methods of literature searching and critical appraisal of journal articles, give basic library orientations to incoming classes and to faculty, and consult with individuals and small groups in person and online. They are available to collaborate with the faculty in further developing the library curriculum and the collection to meet the demands of the MCN program.

F. Facilities and Equipment
The College of Agriculture and Life Sciences has over 300 faculty members and around 6500 undergraduates. NFSC (nfs.tamu.edu) has over 60 graduate students split evenly between nutrition and food science. The participating departments have adequate space to accommodate the anticipated increase in graduate student numbers, and as the program expands, we can alter the curriculum to accommodate additional electives and to better serve the future needs of the students. The projected increase in student enrollment will also provide some additional resources to meet the teaching needs of this program after 5 years. No new buildings, infrastructure, facilities, or equipment are requested or required for the MCN degree implementation. The dietetic internship component of the program is completed at existing facilities of the preceptors affiliated with Texas A&M Dietetic Internship Program.

G. Accreditation
The dietetics program is currently approved and accredited every 7 years by ACEND and CDR administers the national credentialing exam only to eligible students from accredited programs. The program will seek re-accreditation again in 2023. Beyond 2024, graduates of any dietetic internship program must have a minimum of a Master’s degree to be eligible for the RDN exam. The MCN degree is intended to address this future accreditation standard, as well as meet an anticipated demand of qualified applicants seeking both a Master’s degree related to dietetics and completion of the internship program. The Texas A&M Dietetic Internship Program will request a Major Program Change with ACEND for implementation of the proposed MCN program.

H. Evaluation
The MCN program was developed with the help of an external advisory group consisting of practicing clinical RDNs in the Bryan/College Station area as well as from the national standards of ACEND. The College of Agriculture and Life Sciences has a Program Manager who gives oversight to academic assessment and the NFSC department has a graduate assessment committee to conduct annual program evaluations. Data is loaded into the University’s WEAVEonline system based upon the university student learning outcomes and the specific competency areas identified in the curriculum. In addition to the 7-year ACEND review, our graduate programs are externally reviewed every 6 years with the last review conducted in 2016 according to Rule 5.52 of the Texas Higher Education Coordinating Board. As part of the ACEND program accreditation, we are required to maintain records on the effectiveness of the program, student numbers, internship match rates, program outcomes, and placement of our graduates. ACEND has a benchmark of 80% of graduates passing the RDN exam within one year following program completion and 80% of graduates completing the program within 150% of program length.

III. Costs and Funding

A. Five-Year Costs and Funding Sources Summary
A moderate amount of basic office supplies and program support items will be required including print materials, brochures, and recruiting posters totaling $15,000. The following table indicates the costs of administration, graduate assistants, and clerical staff for the new degree as part of their effort in teaching the established courses required for this degree. The table “Costs to the Institution of the Proposed Program”, located at the end of this document, outlines formula funding, state funding, reallocation of existing resources, and revenue generated from tuition and fees. No new faculty or faculty salaries are requested, as all courses taught in this degree program are currently being offered.

<table>
<thead>
<tr>
<th>Five-Year Costs</th>
<th>Five-Year Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personnel</td>
<td>Reallocated Funds</td>
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<tr>
<td><strong>Faculty</strong></td>
<td></td>
</tr>
<tr>
<td>Administration</td>
<td>186,765</td>
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<tr>
<td>Graduate Assistants</td>
<td>92,440</td>
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<tr>
<td>Clerical/Staff</td>
<td>85,505</td>
</tr>
<tr>
<td>Other Personnel</td>
<td></td>
</tr>
<tr>
<td>Facilities</td>
<td>Statutory Tuition</td>
</tr>
<tr>
<td>Equipment</td>
<td>Designated Tuition</td>
</tr>
<tr>
<td>IT Resources</td>
<td>Graduate Tuition</td>
</tr>
<tr>
<td></td>
<td>Above Statutory ($50) Tuition</td>
</tr>
<tr>
<td>Supplies and Materials</td>
<td>15,000</td>
</tr>
<tr>
<td></td>
<td>Course Fees</td>
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<tr>
<td></td>
<td>Board Authorized</td>
</tr>
<tr>
<td></td>
<td>Tuition</td>
</tr>
<tr>
<td>Library</td>
<td>Anticipated New</td>
</tr>
<tr>
<td></td>
<td>Formula Funding</td>
</tr>
<tr>
<td>Other</td>
<td>Special Item Funding</td>
</tr>
<tr>
<td></td>
<td>Other (Internship Fee)</td>
</tr>
<tr>
<td><strong>Total Costs</strong></td>
<td><strong>379,710</strong></td>
</tr>
<tr>
<td><strong>Total Funding</strong></td>
<td><strong>2,837,012</strong></td>
</tr>
</tbody>
</table>
B. Signature Page

Signature Page

1. **Adequacy of Funding and Notification of Other Institutions** – The Chief Executive Officer shall sign the following statements:

   I certify that the institution has adequate funds to cover the costs of the proposed program. Furthermore, the proposed program will not reduce the effectiveness or quality of existing programs at the institution.

   I certify that my institution has notified all public institutions within 50 miles of the teaching site of our intention to offer the proposed program at least 30 days prior to submitting this request. I also certify that if any objections were received, those objections were resolved prior to the submission of this proposal.

   I certify that my institution will adhere to Texas Education Code (TEC), Sections 61.822 through 61.823, requiring my institution to accept and apply to the proposed program Core Curriculum and Field of Study courses in transfer.

   [Signatures]

   Chief Executive Officer

   Date

2. **Accuracy of Financial Estimates**

   I certify that the estimated costs and sources of funding presented in the proposal are complete and accurate.

   [Signatures]

   Chief Financial Officer

   Date

3. **Board of Regents or Designee Approval** – A member of the Board of Regents or designee shall sign the following statement:

   On behalf of the Board of Regents, I hereby certify that the proposed program is appropriate for the mission of this institution and the Board of Regents has approved the proposed program.

   [Signatures]

   Board of Regents (Designee)

   Date
V. Additional Distance Education Delivery Consideration

The degree program will be offered on-campus with face-to-face delivery with the exception of a 2-hour internship course that is coordinated using E-Campus.

VI. Required Appendices

A. Course Descriptions and Prescribed Sequence of Courses

Pre-requisites: Verification statement from an accredited DPD program and admission into the graduate program of NFSC department.

Degree Requirements:

- Core nutrition classes – 6 hours of 600-level.
- Genetics – 3 hours of 600-level
- Physiology – 3 hours of 600-level
- Statistics – 3 hours of 600-level
- Nutrition seminar – 2 hours
- Nutrition or Approved Electives- 10 hours
- Directed Studies/internship (maximum 9 hours)

Total – 36 hours minimum

Course Descriptions, Graduate Program in Nutrition

- NUTR 601/ANSC 601 General Animal Nutrition
  - Credits 3. 3 Lecture Hours.
  - Comparative nutrition of animal species contrasting digestive, metabolic and physiological functions involved in processing and using nutrients.
  - Prerequisite: ANSC 303 or 318 or equivalent.
  - Cross Listing: ANSC 601/NUTR 601.
- NUTR 602/ANSC 602 Energetics of Metabolism and Growth
  - Credits 3. 3 Lecture Hours.
  - Current fundamental concepts in protein and energy metabolism relating to nutrients required for maintenance, growth and development of animals.
  - Prerequisite: BICH 410 or approval of instructor.
  - Cross Listing: ANSC 602/NUTR 602.
- NUTR 610/FSTC 610 Nutritional Pharmacometrics of Food Compounds
  - Credits 3. 3 Lecture Hours.
  - Introduction into nutritional pharmacokinetics and pharmacodynamics of food compounds; specific examples of toxicological and pharmacological effects of food compounds.
  - Prerequisite: NUTR 202 or NUTR 203 or FSTC 201 or CHEM 227 or CHEM 222 or approval of instructor.
  - Cross Listing: FSTC 610/NUTR 610.
- NUTR 613/ANSC 613 Protein Metabolism
  - Credits 3. 3 Lecture Hours.
Basic concepts and recent advances in protein metabolism in animals with emphasis on physiological and nutritional significances; discussion of protein digestion; absorption of peptides; absorption, synthesis and degradation of amino acids; hormonal and nutritional regulation of protein turnover; determination of protein quality and requirements.

- **NUTR 614** Fermentation and Gastrointestinal Microbiology
  - Credits 3. 3 Lecture Hours.
  - Fermentation and gastrointestinal ecosystems in terms of microorganisms present, their activities and requirements and their interactions in a dynamic system.
  - Prerequisite: Beginning microbiology and/or biochemistry or approval of instructor.
  - Cross Listing: ANSC 613/NUTR 613.

- **NUTR 617/ANSC 617** Experimental Techniques in Meat Science
  - Credits 3. 1 Lecture Hour. 6 Lab Hours.
  - Methods used in separating and identifying muscle proteins and fats; techniques for determining postmortem changes of muscle tissue as a result of antemortem treatments.
  - Prerequisite: ANSC 607/FSTC 607; BICH 411.
  - Cross Listing: ANSC 617/NUTR 617.

- **NUTR 618/ANSC 618** Lipids and Lipid Metabolism
  - Credits 3. 3 Lecture Hours.
  - Chemical nature of various classes of lipids and lipid-derived hormones; absorption and metabolism of fatty-acids and lipids; regulation of lipid biosynthesis and obesity; relationship between lipid metabolism and cholesterol homeostasis; lipids as hormones.
  - Prerequisite: BICH 410 or approval of instructor.
  - Cross Listing: ANSC 618/NUTR 618.

- **NUTR 630** Nutrition in Disease
  - Credits 3. 3 Lecture Hours.
  - Human nutritional requirements in health and disease, emphasizing effects of disease states on intake, digestion, absorption, metabolism and excretion of nutrients; relationship of diet to development of certain diseases.
  - Prerequisites: NUTR 202; BICH 410 or equivalent.

- **NUTR 640/FSTC 640** Therapeutic Microbiology I
  - Credits 3. 3 Lecture Hours.
  - Alimentary (gastrointestinal) microbiology including: (i) the "normal" intestinal microbiota; (ii) probiotic and prebiotic nutritional supplements; (iii) recombinant pharmabiotics; (iv) gut-associated lymphoid tissue and mucosal immunity; (v) foodborne gastrointestinal pathogens; and (vi) fermented products as functional foods.
  - Prerequisite: Undergraduate survey course in microbiology (or instructor's consent).
  - Cross Listing: FSTC 640/NUTR 640.

- **NUTR 641** Nutritional Biochemistry I
  - Credits 3. 3 Lecture Hours.
  - Integration of the intermediary metabolism of glucose, amino acids and lipids with nutrition, physiology and pathophysiology in animals; regulation of metabolic
pathways in cells, tissues and the whole body under normal and disease conditions; functions of vitamins and minerals in nutrient metabolism and health.

- Prerequisite: BICH 411 or BICH 604. Offered during the fall semester.

**NUTR 642 Nutritional Biochemistry II**
- Credits 3. 3 Lecture Hours.
- Mechanisms through which specific nutrients modulate intracellular signal transduction and gene expression; molecular mechanisms by which nutrition modulates disease states such as atherosclerosis, cancer and arthritis.
- Prerequisites: BICH 411; BICH 431/GENE 431 or equivalent.

**NUTR 645/POSC 645 Nutrition and Metabolism of Vitamins**
- Credits 3. 3 Lecture Hours.
- Chemistry and metabolism of the fat soluble and water soluble vitamins and their roles in animals; integrates cellular biochemistry and metabolism of the vitamins in vertebrate animal.
- Prerequisites: POSC 411 or ANSC 303/NUTR 303; BICH 410 or BICH 603.
- Cross Listing: POSC 645/NUTR 645.

**NUTR 646 Fundamentals of Space Life Sciences**
- Credits 3. 3 Lecture Hours.
- Integrates nutrition, physiology, and radiation biology to define major biological problems in long duration space flight; provide an overview of the problems of bone loss, muscle wasting, and radiation-enhanced carcinogenesis along with potential countermeasures; focus on nutritional interventions and exercise protocols.
- Cross Listing: NUEN 646 and KINE 646.

**NUTR 647/WFSC 647 Nutritional Biochemistry of Fishes**
- Credits 3. 3 Lecture Hours.
- Principles of nutritional biochemistry including nutrient metabolism and biochemical energetics with special emphasis on finfish and shell fish.
- Prerequisite: BICH 410 or equivalent.
- Cross Listing: WFSC 647/NUTR 647.

**NUTR 650/POSC 650 Nutrition and Metabolism of Minerals**
- Credits 3. 3 Lecture Hours.
- Nutritional significance of minerals in animal metabolism; chemical, biochemical and physiological role of minerals and homeostatic control in animal metabolism.
- Prerequisites: POSC 411 or ANSC 303/NUTR 303; BICH 410 or BICH 603.
- Cross Listing: POSC 650/NUTR 650.

**NUTR 669/FSTC 669 Experimental Nutrition & Food Science Laboratory**
- Credits 4. 1 Lecture Hour. 6 Lab Hours.
- Experimental Nutrition & Food Science Laboratory. Nutritional intervention in animal models of metabolic or emotional disorders; genetic modifications or pathogens in food products; analyses of gene expression and behavior.
- Prerequisite: BICH 432/GENE 432/GENE 432/BICH 432 recommended; graduate classification in nutrition or related major.
- Cross Listing: FSTC 669/NUTR 669.

**NUTR 671/FSTC 671 Crit Eval of Nutr and Food Science Lit: Evidence Based Reviews**
- Credits 3. 3 Lecture Hours.
Evaluation of scientific literature, research methods within the literature, and the quality of scientific studies to produce an evidence-based review in areas specific to nutrition and food science.

- Prerequisites: NUTR 202 or NUTR 203 and STAT 302; knowledge of nutrition, statistics, and technical writing helpful.
- Cross Listing: FSTC 671/NUTR 671.

- **NUTR 681 Seminar**
  - Credit 1. 1 Lecture Hour.
  - Current developments in the field of nutrition; review of current literature and oral presentation of scientific papers on selected nutrition topics.
  - Prerequisite: Graduate classification.

- **NUTR 684 Professional Internship**
  - Credits 1 to 16. 1 to 16 Other Hours.
  - Experience in application of formal training to applied nutrition under supervision of nutritionists, dietitians and faculty member. Student will investigate matter of mutual interest and report results in a professional paper approved by the graduate committee.
  - Prerequisite: Graduate classification.

- **NUTR 685 Directed Studies**
  - Credits 1 to 4. 1 to 4 Other Hours.
  - Nutrition problems and procedures; problems assigned according to experience, interest and need of individual student.
  - Prerequisite: Approval of instructor prior to registration.

- **NUTR 689 Special Topics in...**
  - Credits 1 to 4. 0 to 4 Lecture Hours. 0 to 4 Lab Hours.
  - Special topics in an identified area of nutrition. May be repeated for credit.
  - Prerequisites: Graduate classification and approval of instructor.

- **NUTR 691 Research**
  - Credits 1 to 23. 1 to 23 Other Hours.
  - Investigations leading to thesis or dissertation in various areas of nutrition.
  - Prerequisite: Graduate classification.

### Course Descriptions, Support Courses

- **KINE 637 Exercise Physiology I**
  - Credits 3
  - Functional changes brought about by acute and chronic exercise; topics include muscle structure/function, energy transduction, biochemistry of exercise, muscle mechanics, fatigue and adaptation. Prerequisite:
  - Graduate classification.

- **KINE 638 Exercise Physiology II**
  - Credits 3
  - Functional changes brought about by acute and chronic exercise; topics include pulmonary and cardiovascular physiology, training and detraining, and special topics.
  - Prerequisite: Graduate classification.

- **BICH 601 Fundamentals of Biochemistry I**
  - Credits 3
o Basic biochemical concepts pertaining to the structure of the major biomolecules (proteins, carbohydrates, lipids and nucleic acids); the relationship of structure to function of these molecules; structure and action of enzymes; principles of bioenergetics.

o Prerequisite: Graduate classification.

- **BICH 602 Fundamentals of Biochemistry I**
  - Credits 3
  - Major metabolic pathways for carbohydrates, lipids, amino acids, proteins and nucleic acids, emphasizing oxidative processes and the biosynthesis of RNA, DNA and protein; regulation of cellular metabolism.
  - Prerequisite: Graduate classification.

- **GENE 603 Genetics**
  - Credits 3
  - Development of fundamental concepts related to the structure, function, organization, transmission and distribution of genetic material.
  - Prerequisite: Graduate classification.

- **STAT 601 Statistical Analysis**
  - Credits 3
  - Introduction to probability, probability distributions and statistical inference; hypotheses testing; introduction to methods of analysis such as tests of independence, regression, analysis of variance with some consideration of planned experimentation.
  - Prerequisite: Graduate classification.

**Example Plan of Study for MCN:**

<table>
<thead>
<tr>
<th>Year 1 (On campus)</th>
<th>Year 2 (Online)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td><strong>Fall</strong></td>
</tr>
<tr>
<td>NUTR 600 level (3 hrs)</td>
<td>NUTR 684* (2 hrs)</td>
</tr>
<tr>
<td>Physiology 600 level (3 hrs)</td>
<td></td>
</tr>
<tr>
<td>NUTR 681 (1 hrs)</td>
<td></td>
</tr>
<tr>
<td>NUTR 685* (2 hrs)</td>
<td></td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td><strong>Spring</strong></td>
</tr>
<tr>
<td>NUTR 600 level (3 hrs)</td>
<td>NUTR 684* (2 hrs)</td>
</tr>
<tr>
<td>GENE 600 level (3 hrs)</td>
<td>NUTR 685* (1 hrs)</td>
</tr>
<tr>
<td>NUTR 681 (1 hrs)</td>
<td></td>
</tr>
<tr>
<td>NUTR 685* (2 hrs)</td>
<td></td>
</tr>
<tr>
<td><strong>Summer</strong></td>
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</tr>
<tr>
<td>STAT 600 level (3 hrs)</td>
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</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>NUTR or Approved Electives (10 hrs)</td>
<td>NUTR or Approved Electives (10 hrs)</td>
</tr>
<tr>
<td>(can be taken any semester)</td>
<td>(can be taken any semester)</td>
</tr>
</tbody>
</table>

**Total: 36 hours**

* No more than 25 percent of the total degree plan hours may be used in any combination of the following categories:

a. Not more than 4 hrs of 684 (Professional Internship) may be used.

b. Not more than 8 hrs of 685 (Directed Studies) may be used.
Additional Requirements:
In addition to the above course requirements, students will be required to complete an evidence-based review on a topic agreed upon by the student and the chair of their graduate committee. This document will be defended and approved by the graduate committee along with successful passing of written and oral exams administered by their graduate committee.

B. Five-Year Faculty Recruitment Plan/Hiring Schedule
No new faculty positions are requested for this degree, and no new faculty positions are anticipated over the next five years.

Institution’s Policy on Faculty Teaching Load
Faculty teaching load is determined on an individual basis at the department level in the Department of Nutrition and Food Science. Factors influencing teaching load include student demand for classes, classes with laboratories, frequency of course offerings, and other duties as assigned by the department head.

C. Itemized List of Capital Equipment Purchases During the Past Five Years
No program equipment has been purchased in support of this program in the past 5 years. Equipment has the meaning established in the Texas Administrative Code §252.7(3) as items and components whose cost are over $5,000 and have a useful life of at least one year.

D. Librarian’s Statement of Adequate Resources
The adequacy of resources has been verified by Ester Carrigan, MLS, AHIP, Texas A&M Librarian and Associate Dean and Director of the Medical Sciences Library who provided a statement listed in Section II sub-section E of the application.

E. Articulation Agreements with Partner Institutions
The dietetics program hold numerous TAMU contracts with clinical preceptors to accept our students for their required internships. These contracts are with clinics, school districts, nutrition assistance, and other medical facilities.

<table>
<thead>
<tr>
<th>Contractor</th>
<th>TAMU Contract #</th>
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<td>CHI St. Joseph</td>
<td>2017-32246</td>
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<td>End Year</td>
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<td>2018</td>
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</tr>
</tbody>
</table>
Karen Geismar, MS, RD, LD, CNSD
Lecturer, Department of Nutrition and Food Sciences
1500 Research Parkway, Building A, Suite 220-J

**Education:**
M.S. Nutrition, August 1998, Texas Woman’s University, Denton, TX
Thesis: “Growth Factors In Human Milk and the Rate of Growth in the Preterm Infant”
B.S. Computer Science, 1986, Oklahoma State University, Stillwater, OK

**Current Position**
10/2008 to Present
Lecturer, Department of Nutrition and Food Sciences, Texas A&M University

**Clinical Experience:**

**St. Joseph Regional Rehabilitation Center, Bryan, TX:** 08/2007 to 9/2008
Clinical Dietitian, Part time
- Nutrition assessment and management for Rehabilitation Unit. Realm of nutrition management includes modified diets, wound healing needs, enteral nutrition and parenteral nutrition
- Diet education of modified and specialized diets, and home nutrition support
- Work with foodservice management on menu preparation, quality assurance
- Instruction of outpatient Diabetes Course with diabetic nurse educator as well as the Bariatric Pre- Surgery Seminar with the bariatric nurse coordinator

**Choice Home Care, Bryan, TX**
PRN Dietitian
- Nutrition education and assessment for local home health agency on a referral basis
- Diet education for specialized diets or specific needs such as for wound healing
- Nutrition assessment and recommendations for enteral nutrition support clients

**Dubuis Hospital of Bryan**
05/2008 to Present
PRN Dietitian
- Nutrition assessment and management for long term acute care hospital. Areas of nutrition management includes modified diets, wound healing, nutrition support
- Diet education for modified and specialized diets
- Work with multiple disciplines for patient care and performance improvement projects
- As this was a new facility, assisted with the review of policies and procedures, enteral formulary, and ongoing monitoring and adjustment of nutrition related processes

**Hermann Memorial - Texas Medical Center, Houston, TX:** 09/2004 to 05/2007
Clinical Dietitian III
- Coverage responsibilities included Level 1 trauma and surgery ICU, trauma/orthopedic floor and intermediate medical unit
- Developed, implemented and assisted with management of nutrition care plans for complex critically ill trauma, surgery, and medicine patients on enteral and parenteral nutrition
Participated in patient care rounds with those of other disciplines such as pharmacist, doctors, and nurse practitioners to provide optimal nutrition care

Made nutrition support presentations monthly for medical students, interns and residents assigned to the Surgery/Trauma ICU

Had the opportunity to work with dietetic interns from local dietetic program, medical students, interns and residents for the University of Texas Medical School at Houston

**Parkland Health & Hospital System, Dallas, TX:** 08/1998 to 06/2004

Advanced Practice Dietitian

Dietitian at HIV/AIDS outpatient clinic (04/2002 to 06/2004):

Educated patients for variety of nutritional and metabolic issues associated with HIV/AIDS and treatment side effects

Performed and interpreted bioelectrical impedance analysis

Supervised and mentored dietetic interns

Presentations to community and professional organizations

**Previous Assignments (08/1998 to 04/2002):**

Member of the Nutrition Support Team. Coverage assignments included the Medical Intensive Care Unit and the Neonatal Intensive Care Unit

Team Leader over other clinical dietitians: performed mentorship, advising, and coordination of staff coverage

**Savient Pharmaceuticals, East Brunswick, NJ** 05/2002 to 6/2004

Consulting Dietitian

Performed bioelectrical impedance analysis and provided diet education instruction for variety of nutritional issues including hyperlipidemia, weight reduction and hypertension.

**Memberships and Community Activities:**

Present:

- American Dietetic Association (ADA)
- Texas Dietetic Association (TDA)
- MNT co-chair 2010-2012
- Coordinator for website development
- Mid-East Texas Dietetic Association (METDA)
- Treasurer 2009-2011
- Dietitians in Nutrition Support ADA Dietetic Practice Group
- Dietetic Educators of Practitioners Dietetic Practice Group
- Sports, Cardiovascular, and Wellness Nutrition Dietetic Practice Group
- American Society of Parenteral and Enteral Nutrition (ASPEN)

**Publications:**


Update of the chapter “Nutrition Care in HIV Infections and AIDS” for the *TDA Medical Nutrition Therapy Manual*

**Presentations:**

“Success to a Happier and Healthier Life” for Excellence uniting Culture, Education, and Leadership (ExCEL) annual conference for freshmen orientation, Texas A&M, August 28, 2009.


“Malnutrition and Dietary Management” CCRN Preparation Course, Houston Area Collaborative Critical Care Program, March 2005; April 2006, April 2007

“Nutrition Care in the Hospitalized Patient” collaborative effort for The Houston Area Association of Nurse Practitioners, March 2006

“Certified Nutrition Support Dietitian: Roles and Responsibilities” for Texas Southern University class of Nutrition and Pharmacy students. October 2004

Annual HIV/AIDS Nutrition presentation for the dietetic interns of Texas Woman’s University, Baylor Hospital, and Presbyterian Hospital internship programs, as well as the University of Texas Southwestern Dietetic Program. 2002-2004


Community Service presentation at AIDS Interfaith Network lunch program.

“Nutrition in Women with HIV” for First Annual Women and HIV Symposium hosted by The Texas/Oklahoma AIDS Education Training Center. March 2004
Steve Talcott, Ph.D.
Professor of Food Chemistry, Associate Department Head of Academics
Texas A&M University, Dept of Nutrition and Food Science
Cater Mattil #136; TAMU 2253, College Station, TX 77843-2254
Phone: 979-458-7964, stalcott@tamu.edu
http://nfscfaculty.tamu.edu/talcott/

EDUCATION/TRAINING

<table>
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<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR</th>
<th>FIELD OF STUDY</th>
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<tr>
<td>Texas A&amp;M University, College Station</td>
<td>BS</td>
<td>1994</td>
<td>Food Science &amp; Technol.</td>
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<tr>
<td>Texas A&amp;M University, College Station</td>
<td>MS</td>
<td>1997</td>
<td>Food Science &amp; Technol.</td>
</tr>
<tr>
<td>University of Arkansas, Fayetteville</td>
<td>PhD</td>
<td>2000</td>
<td>Food Science &amp; Technol.</td>
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</table>

Personal Statement
Dr. Talcott’s expertise is in fruit, vegetable, and botanical phytochemistry in whole/processed foods and beverage systems. He is instrumental in researching phytochemical composition, stability, quality, and impact on value-added food processing operations. In working primarily with polyphenolics, carotenoids, and sulfur-containing natural compounds, he investigates these compounds in relation to their composition, stability, role in food quality, contributions to human health, fate during food processing, and metabolism upon consumption. Food composition, phytochemical stability, and physicochemical changes to food systems are now commonly coupled with the absorption and metabolic fate of polyphenolics upon consumption. Dr. Talcott’s role is to evaluate not only how food systems may impact these bioactives, but the role of human digestion, gut microbiota, and their collective metabolism in the production of bioactive metabolites.

Positions and Honors Positions and Employment
1994-1995 Chemistry Supervisor, Silliker Laboratories of Texas, Grand Prairie, TX 2000-2006 Assistant Professor of Food Chemistry, University of Florida, Gainesville, FL 2006 Associate Professor of Food Chemistry, University of Florida, Gainesville, FL 2006-2008 Assistant Professor of Food Chemistry, Texas A&M University, College Station, TX 2008-2014 Associate Professor of Food Chemistry, Texas A&M University, College Station, TX 2014-present Professor of Food Chemistry, Texas A&M University, College Station, TX 2015-present Professor and Associate Department Head for Academics

Other Experience and Professional Memberships
1997- Member, Institute of Food Technologists 2013- Member, American Chemical Society 2012- Editorial Board, Journal of Agricultural and Food Chemistry
**Contribution to Science**

Fresh and processed fruits, vegetables, and botanicals are selected based on their appearance, taste, nutritional benefits, and perception of overall quality. Numerous promotional campaigns have encouraged fruit and vegetable consumption due to a positive association between plant-based phytochemicals and their role in a healthy lifestyle. However, details of their composition, stability, dosing, and verifiable health benefits were still lacking. Research is in the area of fruit, vegetable, and botanical phytochemistry focused on chemical composition, quantification, and isolation of phytochemicals for evaluation and assessment of physicochemical and health-promoting properties following processing and storage. Specifically, this research is focused on the content and fate of polyphenolics, carotenoids, and other bioactive compounds as they relate to food quality, shelf life, taste, and health.


Novel fruit and vegetable processing methods were developed and process improvements made for both primary and by-product utilizations. Fruit juices are often judged based on their appearance, mostly due to the presence of natural red/blue/purple pigments known as anthocyanins. Anthocyanins are easily degraded during storage, yet this research has successfully stabilized or modified many of these compounds to better retain their color, health benefits, and overall consumer appeal during processing and storage. The fruit and vegetable industry must consistently adapt to changing market environments and consumer trends through the development and selection of new cultivars. Research with various commodity groups is helping to select new verities and evaluate existing varieties based on phytochemical content has helped to keep small farmers competitive in retail markets.


Naturally-occurring bioactive compounds in our food have led many consumers to augment their diets to reflect a healthier lifestyle with regard to the potential benefits afforded by fruits and vegetables. This research has screened numerous fruits, vegetables, dietary supplements, and botanical extracts for compounds with such activity and their potential role in human health. Based on previous work on the quality, stability, and health benefits of polyphenolics in food systems, a sound basis for understanding how bioactives in food are impacted by food processing and handling and their impact on human health.


An up-to-date, indexed list of Dr. Talcott publications is found on his website at: http://nfs.tamu.edu/people/talcott-stephen/
Name: Chaodong Wu
Rank: Associate Professor and Faculty Fellow of AgriLife Research
Campus address: Department of Nutrition and Food Science
         Texas A&M University
         2253 TAMU, Cater-Mattil
         217A College Station, TX
         77843
         Phone: (979) 458-1521; Email: cdwu@tamu.edu

EDUCATION

Beijing Medical University, China. PhD in Medical Science, 09/1995-07/1998
Tongji Medical University (Wuhan), China. Master of Medical Science, 09/1992-07/1995
Hubei University of Chinese Medicine (Wuhan), China. MD, Medicine, 09/1987-07/1992

EXPERIENCE

Current job expectation: Research, Teaching, and Service

Research
1) Development of a nationally recognized research program that addresses high priority needs in the area of overnutrition-related metabolic diseases such as insulin resistance, fatty liver disease, and diabetes that leads to expansion of critical knowledge, scholarly achievement, excellence in research, discovery of new and innovative technologies, an enhanced understanding of biological mechanisms or systems and/or creation of intellectual property; other duties include securing extramural funds to support ongoing research activities and effectively communicating the significance or impact of the research performed;
2) Supervision and training of undergraduate students, M.S. and Ph.D. degree candidates and/or post-doctoral appointees in the discipline of Nutrition;

Teaching
3) Teaching undergraduate and graduate courses in Nutrition such as Nutrition and Physiological Chemistry (NUTR 470), Nutrition Seminar (NUTR 681), and Research (NUTR 485, NUTR 491, and NUTR 691); other responsibilities include mentoring of students and providing academic guidance to enable success within the discipline.

Past Positions and Experiences

04/2007 - 08/2013: Texas A&M University, College Station, TX. Assistant Professor
02/2006 - 03/2007: Hoffmann-La Roche, Nutley, New Jersey. Principal Scientist
08/2003 - 02/2007: The University of Minnesota, Minneapolis, MN. Research Associate
08/1998 - 07/2003: The University of Minnesota, Minneapolis, MN. Postdoctoral Associate
09/1995 - 07/1998: Beijing Medical University, Beijing, China. Research Assistant
Most Recent Publications

**Refereed/Peer-Reviewed Research Articles**


1999,24:262- 263.
4. Woo SL (PhD student), Guo T (MS student), and Wu C (corresponding author). Hepatic lipogenesis: Nutritional control and pathophysiological relevance. (2015) Book chapter, in Hepatic de Novo Lipogenesis and Regulation of Metabolism, Editor: Ntambi J.

TEACHING

Courses Taught
NUTR 470, Nutrition and Physiological Chemistry
NUTR 481, Nutrition Seminar
NUTR 642, Nutritional Biochemistry
NUTR 681, Nutrition Seminar
NUTR 691, Graduate Research of Nutrition
Guoyao Wu

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<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>Completion Date</th>
<th>FIELD OF STUDY</th>
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<tr>
<td>South China Agricultural University, China</td>
<td>B.Sc</td>
<td>07/1982</td>
<td>Animal Science</td>
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<tr>
<td>Beijing Agricultural University, China</td>
<td>M.Sc</td>
<td>05/1984</td>
<td>Animal Nutrition</td>
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<tr>
<td>University of Alberta, Canada</td>
<td>M.Sc</td>
<td>07/1986</td>
<td>Animal Biochemistry</td>
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<tr>
<td>McGill University Medical School, Canada</td>
<td>Ph.D.</td>
<td>07/1989</td>
<td>Animal Biochemistry</td>
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<tr>
<td>Memorial University of Newfoundland, Canada</td>
<td>Postdoc.</td>
<td>07/1991</td>
<td>Diabetes and Nutrition</td>
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<tr>
<td>University of Maryland School of Medicine, U.S.</td>
<td>Postdoc.</td>
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<td>Sabbatical</td>
<td>6/2005</td>
<td>Obesity and Fat Metabolism</td>
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Personal Statement

I am a Distinguished Professor of Animal Science at Texas A&M University, as well as a Texas A&M AgriLife Senior Faculty Fellow and University Fellow (http://ansc.tamu.edu). I participate in the Interdisciplinary Faculty programs of Nutrition and hold joint appointments in the Department of Medical Physiology at Texas A&M Health Science Center and in the Department of Veterinary Integrative Biosciences at Texas A&M College of Veterinary Medicine and Biomedical Sciences. I received graduate training in metabolic biochemistry, as well as postdoctoral training in nutrition, biochemistry, diabetes and obesity. Since joining the Texas A&M’s faculty in October 1991, I have continuously conducted externally funded research on arginine synthesis, the arginine-NO pathway, and important roles for amino acids (e.g., arginine, glutamate, glutamine, glycine, leucine, and proline) in regulating fetal and neonatal growth and development in mammals, including sheep, pigs and rats. I have also studied metabolism of amino acids, glucose and fatty acids, as well as cardiovascular complications in diabetic, obese, and tumor-bearing animals. My research resulted in the discoveries of: (1) the glutamine-glutamate cycle in skeletal muscle; (2) the arginine-citrulline cycle in macrophages and endothelial cells; (3) urea synthesis from ammonia and glutamine in mammalian enterocytes; (4) synthesis of citrulline and arginine from proline and glutamine in mammalian enterocytes; (5) synthesis of polyamines from proline in mammalian placentae and enterocytes to support cell growth; and (6) regulatory roles for dietary arginine in reducing adiposity via multiple cell signaling pathways, improving mitochondrial function and insulin sensitivity, regulating the gut microbiota, and enhancing muscle and brown adipose tissue development in animals (e.g., genetically obese rats, diet-induced obese rats, and underfed or obese sheep). My work also led to the recognition of dietary essentiality of: (1) arginine for embryonic/fetal survival, growth and development in mammals; (2) glutamine for intestinal growth and health in weanling mammals; and (3) glycine for the growth of mammalian neonates. Most recently, I proposed a new nutritional concept of functional amino acids and dietary requirements of synthesizable amino acids by animals for optimal growth, reproduction, lactation, immunity, and health. In addition to teaching and research, I served as an editor of Amino Acids, Frontiers in Bioscience, and SpringerPlus. I was recognized by many honors in the profession, including American Heart Association Established Investigator, FASS-AFIA Frontiers in Animal Nutrition Award (the highest award in animal nutrition research in the U.S.), Elected Fellow of American Association for the Advancement of Science, and the Thomson Reuters 2014 Highly Cited Researcher (top 1% in nutrition research). Finally, I have mentored more than 70 graduate students and postdoctoral fellows who are leaders in academia.
and industry.

Positions
10/1991 - 8/1996 Assistant Professor of Animal Science and Nutrition, Texas A&M University
4/1994 - Present Joint-appointment with Department of Physiology, Texas A&M College of Medicine
9/1996 - 8/2001 Associate Professor of Animal Science and Nutrition, Texas A&M University

9/2001 - 8/2012 Professor of Animal Science and Nutrition, Texas A&M University
9/2012 - Present Distinguished Professor of Animal Science and Nutrition, Texas A&M University

Other Experience and Professional Memberships
1992 – Present Member, American Society of Animal Science and American Society for Nutrition
1993 – 2005 Member, Editorial Advisory Board, Biochemical Journal (London, UK)
1996 – Present Member, Society for the Study of Reproduction
1997 - 2003 Member, Editorial Board, Journal of Nutrition (USA)
2004 – 2006 Member, USDA-NRICGP, Animal Growth & Nutrition Program Review Panel
2006 – Present Member, Editorial Board, Journal of Nutritional Biochemistry
2006 Member, Site-visit team to review NCI/NIH Lab of Comparative Carcinogenesis
2006 – 2007 Member, NSFC Animal Biology Program Review Panel
2007 – 2008 Member, NIH Pregnancy and Neonatology Study Section
2008 – Present Editor, Amino Acids (a Springer Journal)
2009 – Present Managing Editor, Frontiers in Bioscience
2010 Member, NIH Study Section on Conference Support
2011 Member, NIH Study Section on Dietary Influence on Human Health
2012 Editor, SpringerPlus: Amino Acids Collection
2015 – Present Member, Editorial Board, Frontiers in Nutritional Immunology (U.K.)

Selected Honors
1984 – 1986 National Scholarship for Graduate Studies Abroad, P.R. China
1989 – 1991 Postdoctoral Fellowship, Medical Research Council of Canada
1998 - 2002 Established Investigator Award, American Heart Association
2001 Texas A&M Agriculture Faculty Fellow
2002 University Faculty Fellow, Texas A&M University
2004 Nonruminant Nutrition Research Award, American Society of Animal Science
2006 Texas A&M Agriculture Research Excellence Award - Uterine Biology Team
2008 Changjiang Scholar (Lecturing Professor), Ministry of Education of P.R. China
2008 Distinguished Research Achievement Award, Texas A&M University
2009 Texas A&M Agriculture Research Excellence Award
200 Senior Texas AgriLife Research Faculty Fellow
2009 FASS-AFIA Frontiers in Animal Nutrition Award
2012 Elected Fellow, American Association for the Advancement of Science
Selected Publications
Rosemary L. Walzem, RD, PhD

Office: 845-7537  FAX: (979) 845-1921  Em: rwalzem@poultry.tamu.edu

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<th>Degree</th>
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<td>B.S.</td>
<td>1979</td>
<td>University of California, Davis</td>
<td>Clinical Dietetics</td>
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<tr>
<td>M.S.</td>
<td>1983</td>
<td>University of California, Davis</td>
<td>Nutrition</td>
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<tr>
<td>Ph.D.</td>
<td>1987</td>
<td>University of California, Davis</td>
<td>Nutritional Biochemistry</td>
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**Professional Training**

- **Dietetic Internship** 1983 - Sutter Hospitals
  Registration No. 669896
- **Postdoctoral Researcher** 1987 - University of California, Davis
  - Physiological Sciences, 1990
- **School of Veterinary Medicine**

**Academic Appointments and Teaching Engagements**

- Fall Quarter 1982 (October - December), Teaching Assistant, Experimental Nutrition, Department of Nutrition, University of California, Davis
- Fall Quarter 1983 (October-December), Visiting Lecturer and instructor of record, Experimental Nutrition, Department of Nutrition, University of California, Davis
- Fall Quarter 1984 (October-December), Teaching Assistant, Nutrition 116A Diet Therapy, Department of Nutrition, University of California, Davis
- June 1999 – Present, Associate Professor of Nutrition, Texas A & M University

Publications and Professional Output (Listed from oldest to most recent)

**Publications and Scholarly Work**

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<td>66</td>
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</table>

**Publication List (1983-Present)**

I. Select Peer Reviewed


Chapters in Books


Shaodong Guo, Ph.D.

Associate Professor
Department of Nutrition and Food
Science College of Agriculture and
Life Sciences Texas A&M
University
123A Cater Mattil Hall,
2253 TAMU, 373 Olsen
Blvd.
College Station, TX 77843
Phone: (979) 845-0850; Fax: (979) 862-6842
E-mail: shaodong.guo@tamu.edu
Website: http://nfs.tamu.edu/people/guo-shaodong/

A. EDUCATION:

1985 High School of Enshi, Hubei Province, China
1989 B.S. Huazhong Agricultural University (Agronomy),
Wuhan, China 1992 M.S. Huazhong Agricultural University
(Physiology &
Biochemistry). Mentor: Hesheng Li. Dissertation Title:
Lipoxygenase and its role in fungal infection.
1995 Ph.D. Peking University, Beijing, China (Physiology). Mentor: Xiangyu
Wu. Dissertation Title: Structure and Function of Enzyme
Rubisco

B. POSTDOCTORAL TRAINING:

1995-1997 Research Associate, Chinese Academy of Sciences Institute of
Genetics and Developmental Biology, Beijing, China. Mentor: Fangzhen Sun, Ph.D.
1997-2001 Research Associate in Endocrinology, Department of Medicine,
University of Illinois at Chicago, Chicago, USA. Mentor: Terry
Unterman, M.D.
2001-2003 Research Fellow in Molecular Medicine and Vascular Biology,
Department of Medicine, Beth Israel Deaconess Medical Center,
Harvard Medical School, Harvard University, Boston, USA.
Mentor: William Aird, M.D.
2003-2004 Research Fellow in Cardiovascular Biology, Department of
Medicine, Brigham and Women’s Hospital, Harvard Medical
School, Harvard University, Boston, USA. Mentor: Victor
Dzau, M.D.
2004-2006 Research Fellow in Howard Hughes Medical Institute, Division of
Endocrinology, Department of Medicine, Children’s Hospital
Boston, Harvard Medical School, Harvard University, Boston,
USA. Mentor: Morris
F. White, Ph.D.
C. RESEARCH INTEREST:

Mechanisms of Insulin Resistance and Diabetes  
Mellitus Fatty Liver, Metabolic Syndrome and Disease  
Diabetic Cardiomyopathy and Heart Failure  
Nutrient and Hormonal Signaling and Biology  
Nutritional and Therapeutic Intervention of Metabolic/Cardiac Diseases Hypertension

D. ACADEMIC APPOINTMENTS:

2001 Research Assistant Professor, Division of Endocrinology, Department of Medicine, University of Illinois at Chicago, Chicago, USA  
2006-2009 Instructor in Medicine, Harvard Medical School, Harvard University  
2006-2009 Instructor in Medicine, Division of Endocrinology, Department of Medicine, Children’s Hospital Boston, Boston, USA  
2006-2009 Scientific Research Associate, Division of Endocrinology, Department of Medicine, Children’s Hospital Boston, Boston, USA  
2009-2015 Assistant Professor (Tenure-Track), Division of Molecular Cardiology, Department of Medicine, College of Medicine, Texas A&M University Health Science Center, Temple, Texas.  
2015. Sept.1-Nov.30 Associate Professor (Tenure), Department of Internal Medicine, Department of Medical Physiology, College of Medicine, Texas A&M University Health Science Center, Temple, Texas.  
2015. Dec.1 - Associate Professor (Tenure), Department of Nutrition and Food Science, College of Agriculture and Life Sciences, Texas A&M University, College Station, Texas.

E. HONORS AND AWARDS:

1992-1995 Winner of Guanghua Scholarship for outstanding Ph.D. student, Peking University, Beijing, China  
1997-1999 Young Investigator Award, Institute of Genetics and Developmental Biology of Chinese Academy of Sciences, Beijing, China  
1997-1999 Young Investigator Award, National Natural Science Foundation of China  
1999 American 81st Annual Meeting of Endocrine Society Competitive Travel Award  
2007-2010 American Diabetes Association Junior Faculty Award  
2015-2020 American Diabetes Association Career Development Award  
2015 American Diabetes Association Research Excellent Thomas R Lee Award

F. TEACHING EXPERIENCE:

COURSE BASED TEACHING
2010- Current Topics of Cell Signaling (MSCI612) for Graduate Students: Class lectures (6 hrs) on Ras/MAPK cascade. Department of Medicine, Texas A&M University Health Science Center, Temple, Texas, USA

2013- Cell Biology (MSCI601) for Graduate Students: Classroom lectures (10 hrs) on Protein Chemistry, Control of Gene Expression, Mitochondria, and Energy Metabolism. Department of Medicine, Texas A&M University College of Medicine, Temple, Texas, USA

2015- Cardiovascular Science (MPHY631) for Graduate Students: Classroom (6 hrs lecture) on Cardiovascular Inflammation and Metabolic Diseases. Department of Medical Physiology, Texas A&M University College of Medicine, Temple, Texas, USA

2015- Cardiovascular Pathology (MPHY632) for Graduate Students: Classroom (6 hrs lecture) on Obesity and Metabolic Syndrome. Department of Medical Physiology, Texas A&M University College of Medicine, Temple, Texas, USA

2016- Nutrition Seminar (NUTR481) for Undergraduate Students: Classroom (1 credit) on Nutrition and Health-related articles for enhancing skills of students to read, write, and present. Department of Nutrition and Food Science, College of Agriculture and Life Sciences, Texas A&M University, College Station, Texas, USA

2016- Nutrition Graduate Research (NUTR691) for Graduate Students: Research lab technology training in molecular biology, biochemistry, cell biology, and mouse genetics (3-6 credits). Department of Nutrition and Food Science, College of Agriculture and Life Sciences, Texas A&M University, College Station, Texas, USA

2016- Nutrition Undergraduate Research (NUTR491) for Undergraduate Students: Research lab technology training in molecular biology, biochemistry, cell biology, and mouse genetics (3 credits). Department of Nutrition and Food Science, College of Agriculture and Life Sciences, Texas A&M University, College Station, Texas, USA

2016- Nutrition in Disease (NUTR630) for Graduate Students: Classroom (3 credits) on Nutrition and Health-related textbook chapters for enhancing skills of students to read, analyze, and write research proposals. Department of Nutrition and Food Science, College of Agriculture and Life Sciences, Texas A&M University, College Station, Texas, USA

2016- Nutritional and Physiological Chemistry (NUTR470-500) for Undergraduate Students: Classroom (3 credits) on Nutrition focusing on metabolisms of carbohydrates, lipids, and proteins in fundamental concepts. Department of Nutrition and Food Science, College of Agriculture and Life Sciences, Texas A&M University, College Station, Texas, USA
Texas, USA

2016- Nutritional and Physiological Chemistry Honor Class (NUTR470-200) for Undergraduate Students: Classroom (3 credits) on Nutrition, focusing on critical reading and group discussion and analysis on scientific and clinical research and review article, and understanding the prevailing approaches in the basic and clinical research regarding carbohydrates, lipids, and proteins. Department of Nutrition and Food Science, College of Agriculture and Life Sciences, Texas A&M University, College Station, Texas, USA

G. MEMBERSHIP OF PROFESSIONAL ORGANIZATIONS:

1997- Member, The International Society of Developmental Biology
1998- Member, The Endocrine Society
2001- Member, American Diabetes Association
2002- Member, American Heart Association
2004- Member of Chinese American Diabetes Association
2010- Member, American Physiology Society
2010- Member, Graduate Studies of Texas A&M Health Science Center, TX
2016- Member, Graduate Studies of Texas A&M University, TX
2016- Member, Chinese American Diabetes Association.

H. Selected PUBLICATIONS / BIBLIOGRAPHY:


Dr. Stephen B. Smith

EDUCATION:
B.S. (Biology), California State College, Bakersfield, 1975
Ph.D. (Metabolic Physiology/Biochemistry) University of California, Davis, 1979
Postdoctoral Research Associate (Nutrition), University of Nebraska, Lincoln and U.S. Meat Animal Research Center, USDA/ARS, Clay Center, Nebraska, 1979-1981

EMPLOYMENT, PROFESSIONAL, AND ACADEMIC APPOINTMENTS:
Sergeant, U.S. Army, 1971-1972
Associate Professor of Animal Science, TAMU, 1983-1988
Professor of Animal Science, TAMU, 1988-
2014 Regents Professor of Animal Science,
2014-present
Visiting Scholar, University of Chicago, Department of Molecular Biology, 1990
Visiting Scientist, CSIRO, Brisbane, Australia, 1996, 2007
Honorary Scientist, Rural Development Administration, Republic of Korea, 2005-2012

PROFESSIONAL SOCIETIES:
American Society of Animal Science

SELECTED GRANT SUPPORT:

SELECTED PUBLICATIONS:
Rawles, S. D., S. B. Smith, and D. M. Gatlin III. 2008. Hepatic glucose utilization and


Dr. Yuxiang Sun

Yuxiang Sun, MD, PhD
Department of Nutrition and Food Science Texas A&M University
214D Cater-Mattil 2253 TAMU (MS)
College Station, TX 77843-2253
Phone: 979-862-9143 (office); 832-818-6763 (cell)
Fax: 979-862-6842
E-mail: yuixiangs@tamu.edu or Yuxiang.Sun@tamu.edu

Adjunct appointment:
USDA Children’s Nutrition Research Center (CNRC) Huffington Center on Aging (HCOA)
Diabetes and Endocrinology Research Center (DERC) Departments of Pediatrics &
Molecular and Cellular Biology Baylor College of Medicine
One Baylor Plaza, MS: 320 1100 Bates, Room 5024
Houston, TX 77030
Tel: 713-798-7167 (office)
713-798-9398 (lab)
Fax: 713-798-9396
E-mail: yuixiangs@bcm.edu

Research Interests: Nutritional and hormonal regulation, glucose- and energy-homeostasis,
lipid metabolism, neuroendocrine regulation, pathogenesis and pathophysiology of obesity,
diabetes, inflammation, and aging.

A. Education: (include institution/location, degree, and dates of attendance)

1. Undergraduate Education:
   1982-1988 Bachelor of Medicine
   Beijing Medical University, Beijing, China

2. Medical Education or Graduate Education (with thesis/dissertation title, advisor):
   1993-1996 M.Sc, Physiology, Department of Physiology; University of
   Manitoba; Winnipeg, Manitoba, Canada
   Master of Science thesis studied the effects of growth
   factors on mRNA expression of placental specific genes
   and to determine whether growth factors are involved in
   the developmental regulation of these genes during
   pregnancy.
   Thesis: “The effects of transforming
   growth factor □ on the expression of rat
   placental lactogens.”
   Advisor: Mary Lynn Duckworth, Ph.D.

   1996-2000 Ph.D., Molecular Endocrinology
   Division, Gene Technology Group;
   Department of Physiology; University
   of Manitoba, Winnipeg, Manitoba,
   Canada
Research project was to investigate the molecular mechanisms of the tissue-specific regulation of a placental gene family, to characterize the regulatory elements involved in placental-specific expression, and to identify the transcription factors that interact with those elements.

**Thesis:** "Identification and characterization of cis- and trans-acting factors involved in the expression of the rat placental lactogen II gene."

**Advisor:** Mary Lynn Duckworth, Ph.D.

3. **Postgraduate Training:** residency, fellowship (clinical or research), with source of support and advisor, if relevant)

   **2000-2003**
   Postdoctoral Fellow, Huffington Center on Aging; Baylor College of Medicine; Houston, TX USA; Generated and characterized knockout mice for ghrelin and its receptor (GHS-R); publications (PNAS, MCB) of these models have been highly cited. **Support:** Postdoctoral Fellowship of Medical Research Council of Canada. **Advisor:** Roy G. Smith, Ph.D.

   **2003-2005**
   Research Associate, Huffington Center on Aging; Baylor College of Medicine; Houston, TX USA.

B. **Academic Appointments:** title and dates of appointment

1. Current faculty position(s) at BCM:
   **April 2006-July 2007**
   Instructor, Huffington Center on Aging, Department of Molecular and Cellular Biology, Baylor College of Medicine. Houston, TX

   **Aug. 2007-Sept. 2008**
   Assistant Professor (research –track), Huffington Center on Aging, Department of Molecular and Cellular Biology, Baylor College of Medicine. Houston, TX

   **Oct. 2008-Nov. 2015**
   Assistant Professor (tenure-track), USDA Children’s Nutrition Research Center (CNRC), Huffington Center on Aging (HCOA), Departments of Pediatrics & Molecular and Cellular Biology, Member of NIH-funded Diabetes Research Center, Baylor College of Medicine. Houston, TX

   **July 2011-Present**
   Graduate faculty, Translational Biology and Molecular Medicine (TBMM) Graduate Program, Graduate School of Biomedical Sciences, Baylor College of Medicine.

   **Jan. 2013-Present**
   Member, Center of Drug Discovery, Baylor
College of Medicine. Apr. 2015- Present Associate member, Texas Medical Center Digestive Diseases Center

Dec. 2015-present Adjunct Assistant Professor, USDA Children’s Nutrition Research Center (CNRC), Huffington Center on Aging (HCOA), Departments of Pediatrics & Molecular and Cellular Biology, Member of NIH-funded Diabetes Research Center, Baylor College of Medicine. Houston, TX

II.

Dec. 2015-present Assistant Professor (tenure-track), Dept. of Nutrition and Food Science, Texas A&M University.

Jan, 2016-present Full Member, Center for Translational Environmental Health Research (CTEHR), Texas A&M University.

C. Other Information

1. Honors or Awards:

   2000 Medical Research Council of Canada (Canadian Institutes of Health Research) Postdoctoral Fellowship (3 years stipend and research travel)
   2003 Travel Award, Endocrine Society’s 85th Annual Meeting in Philadelphia, PA (116 Awards out of 3000 submitted abstracts)
   2003 Aventis Metabolism Award (total 10 Recipients) Endocrine Society’s 85th Annual Meeting in Philadelphia, PA
   2005 Travel Award, Endocrine Society 87th Annual Meeting, San Diego, CA
   2007 Finalist of Rolanette and Berdon Lawrence Bone Research Award, The Bone Disease Program of Texas.
   2007 Travel Award, Endocrine Society 89th Annual Meeting, Toronto, Canada
   2010 WE Young Investigator Award sponsored by the Fat Disorders Research Society Endocrine Society’s 92nd Annual Meeting in San Diego, CA
   2010 Abstract was selected as one of the 10 “Novel & Newsworthy Top Picks” from among 1100 abstract submissions at 50th Annual Meeting of American Society for Cell Biology, Philadelphia, PA. This has also generated many news articles.
   2012 Awarded for “Outstanding Abstract Award” and selected for oral presentation, also selected for inclusion in the news release and the Annual Research Summaries Book (RSB) of the Endocrine society. Endocrine Society 94th Annual Meeting, Houston, Texas
Selected Publications


A. The following publications have resulted from work done at Baylor College of Medicine:
Dr. Susanne U. Mertens-Talcott

<table>
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<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
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<tr>
<td>Food Science and Nutrition, University of Florida, Gainesville, FL</td>
<td>Postdoctoral training</td>
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<tr>
<td>Pharmaceutics, University of Florida, Gainesville, FL</td>
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</table>

Positions & Employment

- **Director for Research**, Institute for Obesity Research and Program Evaluation, Texas A&M University, College Station, TX, since 2009
- **Assistant Professor** Dept. of Nutrition and Food Science, Texas A&M University, College Station, TX, since 2008
- **Postdoctoral Research Associate in Pharmaceutics**, University of Florida, Gainesville, FL, Pharmaceutics Department, Center for Food Drug Interactions and Education, 2004-2006
- **Graduate Research Assistant**, University of Florida, Gainesville, FL, Food Science and Human Nutrition Department, 2000-2004
- **Research Assistant in Nutritional Biochemistry**, University of Bonn, Bonn, Germany, Department Biochemistry, 1999-2000
- **Research Assistant in Clinical Biochemistry**, University of Bonn, Bonn, Germany, Department of Clinical Biochemistry, 1999
- **Research Assistant in Nutrition**, University of Bonn, Bonn, Germany, Department of Nutrition, 1998

HONORS AND AWARDS

- **Excellence Award for Research**, Nutrition and Food Science Department, Texas A&M University, 2009
- **ASN Mary Swartz Rose Young Investigator Award**, 2009. American Society of Nutrition
- **First Place, Research Competition**, Nutrition Division, Institute of Food Technologists (IFT) Annual meeting 2004, Las Vegas, NE.
- **Presidential Recognition** for outstanding students, University of Florida, Gainesville, FL, 2004
- **Graduate Student Council Travel Scholarship**, University of Florida, Institute of Food Technologists Annual meeting, Chicago, IL, 2002, 2003, 2004
- Institute for Agricultural and Life Sciences **Travel Scholarship**, University of Florida, Gainesville, FL, 2003, 2004
- **First Place, student poster competition**, Fruit and Vegetable Division, IFT Annual meeting 2003, Chicago, IL.
- **Gamma Sigma Delta Honor Society of Agriculture**, University of Florida, Gainesville, FL. Member since 2002
- **George K. Davis Fellowship**, Institute for Agricultural and Life Sciences,
Selected PEER-REVIEWED PUBLICATIONS


University of Florida, Gainesville, FL. 2000-2004

Scholarship Carl-Duisberg-Association, Germany. Study abroad program at the College of Technology, Dublin, Ireland. 1993


INVITED BOOK CHAPTERS AND OTHER PUBLICATIONS


TEACHING ACTIVITIES

Instructor:

- NUTR 410/610 Pharmacometrics of Bioactive Food Compounds. Nutrition and Food Science Department, Texas A&M University, Spring 2008, 2009, 2010
- FSTC/DASC 314 Food Analysis, Nutrition and Food Science Department, Texas A&M University, Fall 2008, 2009, 2010
- NUTR 489 Special Topics in Phytochemical-Based Health Benefits of Fruits and Vegetables. Nutrition and Food Science Department, Texas A&M University, 2007 and Spring 2008

Co-Instructor:

- PHA5352 Herbal Medicines, Pharmaceutics Department, University of Florida
F. Curricula Vitae for Support Faculty

Professor Daren B.H. Cline  
Ph.D., 1983  
Colorado State University  
Department of Statistics  
Texas A&M University

Office: 459D Blocker Building  
Hours: MWF 10:20am–11:20am, or by appointment. (My Schedule)  
Phone: (979) 845-1443  
E-mail: dcline@stat.tamu.edu  
Address: Statistics Department  
Texas A&M University  
College Station TX 77843-3143

Spring 2018 Course Information  
Statistics 615 – Introduction to Stochastic Processes  
MWF 9:10am–10:00am, Blocker 448.

Fall 2018 Course Information  
Statistics 414 – Mathematical Statistics I  
MWF 9:10am–10:00am, Blocker 457.  
Statistics 601 – Statistical Analysis  
MWF 12:40pm–1:30pm and Tue 12:45pm–1:45pm, Blocker 457.
Christopher R. Woodman, Ph.D.

ADDRESS

Department of Health and Kinesiology
4243 TAMU
Texas A&M University
woodmanc@tamu.edu College Station, TX 77843-4243

Phone: 979-845-0515
Fax: 979-847-8987
email:

EDUCATION

<table>
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<tr>
<th>Degree</th>
<th>Institution</th>
<th>Major/Mentor/Location</th>
<th>Year</th>
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<tr>
<td>Postdoc</td>
<td>UNIVERSITY OF MISSOURI</td>
<td>Area: Vascular Biology</td>
<td>1999</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mentor: Harold Laughlin</td>
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<tr>
<td>Ph.D.</td>
<td>UNIVERSITY OF ARIZONA</td>
<td>Major: Physiological Sciences</td>
<td>1995</td>
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<td>Mentor: Charles Tipton</td>
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<tr>
<td>M.S.</td>
<td>UNIVERSITY OF ARIZONA</td>
<td>Major: Exercise Science</td>
<td>1989</td>
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<td></td>
<td>Mentor: Charles Tipton</td>
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<tr>
<td>B.A.</td>
<td>COLGATE UNIVERSITY</td>
<td>Major: Biology</td>
<td>1986</td>
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PROFESSIONAL EXPERIENCE

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<tr>
<th>Year</th>
<th>Position</th>
<th>Institution</th>
<th>Location</th>
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| 2014     | Associate Department Head | Chair Kinesiology Division, Department of Health and Kinesiology, Texas A&M University; College Station, TX
| 2011-Present | Associate Professor, Department of Health and Kinesiology Texas A&M University; College Station, TX
| 2011-Present | Associate Professor, Dept. of Veterinary Physiology and Pharmacology Texas A&M University; College Station, TX
| 2006-2011 | Assistant Professor, Department of Health and Kinesiology Texas A&M University; College Station, TX
| 2006-2011 | Assistant Professor, Dept. of Veterinary Physiology and Pharmacology Texas A&M University; College Station, TX
| 2006-present | Investigator, Cardiovascular Research Institute Texas A&M University; College Station, TX

New Program Request Form for Bachelor’s and Master’s Degrees
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<tr>
<th>Year(s)</th>
<th>Position / Project Description</th>
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<tbody>
<tr>
<td>2000-2005</td>
<td>Research Assistant Professor, Department of Biomedical Sciences University of Missouri; Columbia, MO</td>
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<tr>
<td>1996-2000</td>
<td>Postdoctoral Fellow, Department of Biomedical Sciences University of Missouri; Columbia, MO</td>
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<tr>
<td>1995-1996</td>
<td>Lecturer, Department of Physiology University of Arizona College of Medicine; Tucson, AZ</td>
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<td>1995-1996</td>
<td>Coordinator, Human Performance Laboratory, Dept. of Physiology University of Arizona; Tucson, AZ</td>
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<td>1993-1995</td>
<td>NASA Pre-Doctoral Fellow, Department of Physiology University of Arizona College of Medicine; Tucson, AZ</td>
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<tr>
<td>1992-1993</td>
<td>Visiting Researcher, Life Sciences Division NASA Ames Research Center; Mountain View, CA</td>
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<td>1991-1993</td>
<td>NIH Pre-Doctoral Trainee, Department of Physiology University of Arizona College of Medicine; Tucson, AZ</td>
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<tr>
<td>1990-1995</td>
<td>Graduate Teaching Assistant, Department of Physiology University of Arizona College of Medicine; Tucson, AZ</td>
</tr>
<tr>
<td>1986-1990</td>
<td>Research Assistant, Department of Exercise and Sport Sciences University of Arizona; Tucson, AZ</td>
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**HONORS**

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<tr>
<th>Year(s)</th>
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<tr>
<td>2012</td>
<td>Nominated: Association of Former Students Distinguished Teaching Award (University-Level); Texas A&amp;M University</td>
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<td>2012</td>
<td>Nominated: Association of Former Students Distinguished Teaching Award (College-Level); Texas A&amp;M University</td>
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<td>2011</td>
<td>Nominated: Association of Former Students Distinguished Teaching Award (University-Level); Texas A&amp;M University</td>
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<td>2003</td>
<td>In <em>the Journal of Applied Physiology</em> Highlighted Topics series: Physiology of Aging, Woodman et al. (JAP 95: 2164-2170, 2003) was published as a selected Contribution and accompanied by an editorial commentary (JAP 95:2163, 2003)</td>
</tr>
<tr>
<td>1992</td>
<td>NASA Certificate of Recognition</td>
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<td>1992</td>
<td>Visiting Researcher: NASA Ames Research Center</td>
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<tr>
<td>1991</td>
<td>NASA PARE.01 Muscle Atrophy Experimental Team Member; Space Shuttle Discovery, STS 48 Mission</td>
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AWARDS

2011  Collins Faculty Fellow, Texas A&M University
2001-2006  Research Career Development Award, National Institutes of Health (NIH)
1997-2000  National Research Service Award (NRSA), National Institutes of Health (NIH)
1992  University of Arizona Graduate Academic Scholarship

AFFILIATIONS

American Physiological Society (APS)
American College of Sports Medicine (ACSM)

Selected PUBLICATIONS


**TEACHING EXPERIENCE**

<table>
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<tr>
<th>Course Title</th>
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<td>KINE 386</td>
<td>Texas A&amp;M</td>
<td>Sport Physiology (3 credit hours)</td>
<td>2015</td>
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<td>MEID 616</td>
<td>Texas A&amp;M</td>
<td>Cardiovascular Block (CV Integration Section)</td>
<td>2014-2017</td>
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<td>KINE 433</td>
<td>Texas A&amp;M</td>
<td>Physiology of Exercise (3 credit hours)</td>
<td>2010-2018</td>
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<tr>
<td>KINE 626</td>
<td>Texas A&amp;M</td>
<td>Exercise for Clinical Populations (3 credit hours)</td>
<td>2008-2019</td>
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<tr>
<td>KINE 646 Sciences</td>
<td>Texas A&amp;M 2007-</td>
<td>Fundamentals of Space Life (Cardiovascular Section)</td>
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<tr>
<td>KINE 689</td>
<td>Texas A&amp;M</td>
<td>Advanced Vascular Physiology (3 credit hours)</td>
<td>2007-2008</td>
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<tr>
<td>KINE 638</td>
<td>Texas A&amp;M</td>
<td>Exercise Physiology II (3 credit hours)</td>
<td>2006-2019</td>
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<tr>
<td>PSIO 425</td>
<td>Missouri</td>
<td>Microcirculation (3 lectures)</td>
<td>2002-2006</td>
</tr>
<tr>
<td>EXSS 521</td>
<td>Arizona</td>
<td>Exercise Physiology Laboratory Course Coordinator</td>
<td>1995-1996</td>
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<tr>
<td>EXSS 520</td>
<td>Arizona</td>
<td>Advanced Exercise Physiology (3 credit hours)</td>
<td>1995-1996</td>
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<td>EXSS 421</td>
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<td>Exercise Physiology Laboratory Course Coordinator</td>
<td>1992-1996</td>
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<tr>
<td>EXSS 420</td>
<td>Arizona</td>
<td>Exercise Physiology for Exercise Science Majors (3 credit hours)</td>
<td>1995-1996</td>
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<tr>
<td>EXSS 373</td>
<td>Arizona</td>
<td>Exercise Physiology Laboratory (2 credit hours)</td>
<td>1991-1992</td>
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<tr>
<td>EXSS 370</td>
<td>Arizona</td>
<td>Exercise Physiology for Physical Education Majors (10 lectures)</td>
<td>1991-1992</td>
</tr>
</tbody>
</table>
NAME: Clint William Magill

TITLE/ADDRESS: Professor of Genetics
Department of Plant
Pathology & Microbiology
Texas A & M University
College Station, Texas 77843
(979) 845-8250 FAX: 845-6483
E-Mail: c-magill@tamu.edu

EDUCATION & HONORS:

UNIVERSITY: University of Illinois, 1959-1963. B.S in Agricultural Science awarded June, 1963. Advisor, Dr. D. E. Alexander, Agronomy Department. Honors and Awards: Bronze Tablet, Borden Award, Outstanding Senior in Agriculture, Phi Kappa Phi, Phi Eta Sigma, Chicago Tribune Silver Medal (twice), and an NSF Undergraduate Fellowship for summer research to attempt to cross tetraploid corn and sorghum.

GRADUATE SCHOOL: Cornell University, 1963-1968. Ph. D. in Genetics, 1968. Chairman of Advisory Committee; Dr. Adrian Srb, Members; Dr. Joe Calvo, Biochemistry, and Dr. Walter Federer, Biometry. Financial support included a NSF Cooperative Graduate Fellowship, The Andrew Dixson White Fellowship, and an NIH Traineeship. Research involved complementation and reversion of morphological mutants of Neurospora crassa.

TAMU 1986: College Level Award for Excellence for Undergraduate Teaching 2008-2009 Speaker, TAMU Faculty Senate 2009: Named a Fellow of the American Association for the Advancement of Science


EMPLOYMENT: 1969-1975 Assistant Professor, Texas A&M University, Texas Agricultural Experiment Station (50% Teaching, 50% research). 1975-1989 Associate Professor (75% Teaching, 25% research). 1989- Professor (50% Teaching, 50% Research)
DESCRIPTION OF POSITION

This position provides expertise in genetic manipulations of eukaryotic microorganisms, biochemical genetics and genes involved in plant host-pathogen interactions. Ideally, the holder will serve as a reference to others working on applied problems with organisms such as plant pathogens. To this end, research is conducted which will illuminate not only basic principles of cellular genetics, development and physiology, but which also has the prospect of significance in solving practical problems.

TEACHING:
The duties and responsibilities of this position are split between teaching and research in genetics. The original teaching challenge was to provide, via team teaching, instruction in molecular genetics to all students (usually >500/semester) in the basic undergraduate course (Genetics 301), and to develop a graduate level course in my area of specialty (Gen 608, Genetics of Microorganisms). The demand for additional undergraduate courses in genetics led to the introduction of an elective undergraduate laboratory course (Genetics 401), which in turn was the basis for establishing a laboratory section for all students in Genetics 301. After successfully initiating the laboratory, teaching responsibilities were shifted to GENE 310 and GENE 603.

Formal courses:
Current assignments:

**GENETICS 603** (since 1999) "Introductory course for graduate level students in genetics and related disciplines; required for almost all advanced courses. (fall semesters)

**Genetics 310** (since 1984) "Principles of Heredity", a three credit course for non-biology majors offered each fall and spring semester, and since 1996, is also offered in the summer. Enrollment has fluctuated between 20 and 80 students per semester.

**Genetics 482** (since 1996) "Undergraduate Genetics Seminars" Taught in Fall and Spring semesters beginning in 1996, with an average of 42 students per year. Students present seminars using computer graphics and projection.

**Genetics 301** "Genetics", the basic four credit course for undergraduates, which averaged about 500 students/semester, and 60/summer session.

(1969-1979) 16 lectures on molecular genetics to each of 3 large Fall and Spring sections, and each of 2 summer sections.

(1980-1983) One large lecture section each Fall and Spring semester and one summer session.
Develop experiments, procure equipment, write laboratory manual, prepare and maintain living materials, order and prepare supplies, and organize, teach and supervise the 12-14 graduate assistants and 2 instructors required to institute a hands-on laboratory section for all students enrolled.

(1986) Lecture to one section (119 students)
(1993) One lecture section (128 students)

**Genetics 608**
(1971-1994) "Genetics of Micro-organisms", a three credit graduate course offered one semester each year (except 1983-4) to 1994. Eliminated when specific courses in bacterial, fungal, and protist genetics became available.

**Genetics 401**
"Genetics Laboratory", a limited enrollment (10-12 students) course instituted to meet student requests for follow-up courses in Genetics. Experiments included transduction and mapping in phage, complementation and tetrad analysis in Neurospora, mutagenicity in Salmonella, isozymes in wheat, personal karyotypes, etc., and a semester-long analysis of a Drosophila unknown.

(1976-1979) Taught one section each spring semester, but duties included preparations and year round stock maintenance.

**Genetics 604**
"Graduate Genetics Laboratory", a course following the format of 401, but also used to develop suitable experiments for large classes, including restriction analysis of plasmid DNA.

(1979-1982) Taught one section each spring semester, including preparations and stock maintenance.

**Genetics 681**
"Graduate Student Seminar" Presentations by students of proposed research or topics from the literature.

(1971, 77, 81, 86, 87, 89, 91) Organized and critiqued student presentations.

**Bioenvironmental Sciences 485** "Problems" On the average, 1 student per semester worked on a specified research problem in my laboratory.

**Genetics 485** "Problems" On the average, one student per year works on a specified research problem in my laboratory.

**Genetics 685** "Problems" Used on several occasions to instruct students on techniques and procedures used in our research.

Selected REFEREED JOURNAL ARTICLES
virulent pathotype (P6) of *Peronosclerospora sorghi* causing downy mildew. Accepted by Plant Health Progress


Prom, LK, Isakeit, T, Erpelding, JE, Rooney, W. Magill, CW 2011, Evaluation of the Ugandan sorghum accessions for grain mold and anthracnose resistance. Accepted by Crop Protection


Dr. Jae Cho  
Assistant Professor

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>MM/YY</th>
<th>FIELD OF STUDY</th>
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</thead>
<tbody>
<tr>
<td>Han-Yang University, Seoul, South Korea</td>
<td>B.S.</td>
<td>02/97</td>
<td>Biology</td>
</tr>
<tr>
<td>Pohang University of Science and Technology, Pohang, South Korea</td>
<td>M.S.</td>
<td>02/99</td>
<td>Protein Engineering</td>
</tr>
<tr>
<td>State University of New York at Stony Brook, Stony Brook, NY</td>
<td>Ph.D.</td>
<td>08/06</td>
<td>Biochemistry and Structural Biology</td>
</tr>
<tr>
<td>Columbia University, New York, NY</td>
<td>Postdoctoral Research Scientist</td>
<td>06/12</td>
<td>Biochemistry and Molecular Biophysics</td>
</tr>
</tbody>
</table>

Positions and Honors

1999 - 2001  Research Scientist, Protein Engineering Laboratory, Pohang University of Science and Technology, Pohang, South Korea
2002  Graduate Teaching Assistant, State University of New York at Stony Brook, Stony Brook, NY
2006 - 2012  Postdoctoral Research Scientist, Columbia University, New York, NY
2012 – Present  Assistant Professor, Department of Biochemistry and Biophysics, Texas A & M University, College Station, TX

Honors

Travel Grant, Graduate Program in Biochemistry and Structural Biology, State University of New York at Stony Brook, Stony Brook, NY
2006  Excellence in Research Award, Sigma-Xi
Outstanding Poster Award, New York Structural Biology Discussion Group, New York, NY

Selected Peer-reviewed Publications


Bryant Warren Miles  
Department of Biochemistry and Biophysics 2128 Texas A&M University  
College Station, Texas  
77843-2128 (979)-862-2295  
Email: bmiles@tamu.edu

EDUCATION:  

Texas A&M University, College Station, TX.  

BS Degree, Chemistry, May 1988.  
Southern Utah State University, Cedar City, UT.

EXPERIENCE:

2001-Present  
Senior Lecturer  
Department of Biochemistry and Biophysics, Texas A&M University, College Station, Texas.

1998-2001  
Post Doctoral Research Associate  
Department of Chemistry, Texas A&M University, College Station, Texas. Advisor: Dr. F. M. Raushel. Determined the pre-steady state kinetics of carbamoyl phosphate synthetase.

1995-1998  
Research Assistant  
Department of Chemistry, Texas A&M University, College Station, Texas. Advisor: Dr. F. M. Raushel. Examined the mechanism of the enzyme carbamoyl phosphate synthetase by site-directed mutagenesis and steady-state kinetics.

HONORS:  

Member of the Phi Lambda Upsilon Honor Society, 1990.
TEACHING EXPERIENCE
My teaching responsibilities are to teach two undergraduate classes of Principles of Biochemistry I (BICH 410) in the Fall Semester, and 2 classes of Principles of Biochemistry II (BICH 411) in the Spring Semester and one class of either BICH 410 or BICH 411 during the Summer Semester. BICH 410 and BICH 411 compose a two semester introduction to biochemistry designed for non-biochemistry majors.

Summer 2005 Biochemistry – JAMP at Texas A&M Health Science Center
Summer 2006 Organic Chemistry – JAMP at Texas A&M Health Science Center
Summer 2007 Organic Chemistry – JAMP at Texas A&M Health Science Center
Summer 2008 Organic Chemistry – JAMP at Texas A&M Health Science Center
Summer 2009 Organic Chemistry – JAMP at Texas A&M Health Science Center
Summer 2010 Organic Chemistry – JAMP at Texas A&M Health Science Center
Summer 2011 Organic Chemistry – JAMP at Texas A&M Health Science Center

Selected PUBLICATIONS:


STEVEN E.
RIECHMAN

Business Address: Department of Health and Kinesiology
Graduate Faculty of
Nutrition Human
Countermeasures
Laboratory Texas A&M
University
College Station, TX
77843-4243 979-862-
3213
sriechman@hlkn.
tamu.edu
http://sriechman.t
amu.edu/

EDUCATION

Post-Doctoral Fellowship (Molecular Genetics)
University of Pittsburgh, Pittsburgh, Pennsylvania 1999-2002

Doctor of Philosophy (Exercise Physiology)
University of Pittsburgh, Pittsburgh, Pennsylvania 1994-2000

Master of Public Health (Epidemiology)
University of Pittsburgh, Pittsburgh, Pennsylvania 1997-2001

Bachelor of Arts (Chemistry)
Miami University, Oxford, Ohio 1987-1991

PROFESSIONAL EMPLOYMENT

Associate Professor with tenure
Department of Health and Kinesiology, Texas A&M University 2011-present
Graduate Faculty of Nutrition, Texas A&M University 2011-present

Assistant Professor
Department of Health and Kinesiology, Texas A&M University 2005-2011
Intercollegiate Faculty of Nutrition, Texas A&M University 2006-2011

Visiting Assistant Professor
Department of Human Genetics, University of Pittsburgh 2003-2007

Assistant Professor
School of Exercise Leisure and Sport, Kent State University 2002-2005

Teaching Fellow
Health, Physical, Recreation Education Department, U. of Pittsburgh 1995-1999

Graduate Research Assistant
New Program Request Form for Bachelor's and Master's Degrees

Human Energy Research Laboratory, University of Pittsburgh 1995-1999

Research Specialist
Brain, Behavior & Immunity Center, University of Pittsburgh 1993-1994

Selected REFEREED PUBLICATIONS


11. Riechman SE, G Balasekaran, SM Roth, RE Ferrell. Association of Interleukin 15 Protein and Interleukin-15 Receptor Genetic Variation to Resistance Exercise Training


**PROFESSIONAL ACTIVITIES** (Texas A&M in maroon)

- 2000-present American Physiological Society
- 2000-present American Association for the Advancement of Science
- 2008-present American College of Sports Medicine (Texas Region)
- 2010-present National Strength and Conditioning Association-
  Professional Member
- 2010-present Fellow-American College of Sports Medicine
- 1995-present American College of Sports Medicine
- 1995-2005 American College of Sports Medicine (Mid-Atlantic Region)
- 2005-present Affiliate Faculty Member: Huffines Institute for Sports Medicine and Human Performance
- 2006-present Affiliate Member: Institute for Obesity Research and Program Evaluation

**TEACHING AND ADMINISTRATIVE EXPERIENCE**

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<th>Undergraduate teaching:</th>
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<td>2005-2013</td>
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<td>2005-2007</td>
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<td>Measurement and Evaluation</td>
<td>2002-2005</td>
<td>Primary</td>
<td>KENT</td>
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<tr>
<td>Individual Investigation</td>
<td>2002-2005</td>
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<td>Directed Research Study</td>
<td>1996-2002</td>
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<td>PITT</td>
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<tr>
<td>Exercise Physiology</td>
<td>1998</td>
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<td>PITT</td>
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<td>Human Physiology</td>
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**Graduate teaching:**

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<td>Graduate Teaching Practicum</td>
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<td>Directed Research Study</td>
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<tr>
<td>Physiology of Strength and Conditioning</td>
<td>2007-2013</td>
<td>Primary</td>
<td>TAMU</td>
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<tr>
<td>Applied Exercise Physiology</td>
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<td>Kinesiology Seminar</td>
<td>2007</td>
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<td>Interdisciplinary Seminar in Gerontology</td>
<td>2004</td>
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<td>Primary</td>
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<td>Section</td>
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<td>Physical Activity Epidemiology</td>
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<td>Advanced Exercise Physiology</td>
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### G. List of Specific Clinical or In-Service Sites to Support the Proposed Program

#### DPD Rotation Sites for Internships

<table>
<thead>
<tr>
<th>Primary Clinical Sites</th>
<th>Other Clinical Sites</th>
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<tbody>
<tr>
<td>Central Texas Veterans’ Health Care System</td>
<td>Baylor Scott &amp; White Hospital &amp; Clinic - Temple</td>
</tr>
<tr>
<td>1901 S. 1st Street, NFS 120T</td>
<td>2301 S. 31st Street</td>
</tr>
<tr>
<td>Temple, TX 76504</td>
<td>Temple, TX 76508</td>
</tr>
<tr>
<td>Baylor Scott &amp; White Hospital &amp; Clinic – Round Rock</td>
<td>Metroplex Adventist Hospital</td>
</tr>
<tr>
<td>300 University Boulevard</td>
<td>2201 S. Clear Creek Rd.</td>
</tr>
<tr>
<td>Round Rock, TX 78665</td>
<td>Killeen, TX 76549</td>
</tr>
<tr>
<td>St. Joseph Regional Health Center</td>
<td>Memorial Hermann Hospital-Texas Medical Center</td>
</tr>
<tr>
<td>2801 Franciscan Drive</td>
<td>TIRR-Memorial Hermann Hospital Texas Medical Center</td>
</tr>
<tr>
<td>Bryan, TX 77802</td>
<td>1333 Mourund St.</td>
</tr>
<tr>
<td>Baylor Scott &amp; White Hospital &amp; Clinic – Round Rock</td>
<td>Dietitians for Healthcare, LLP</td>
</tr>
<tr>
<td>300 University Boulevard</td>
<td>P.O. Box 920961</td>
</tr>
<tr>
<td>Round Rock, TX 78665</td>
<td>Houston, Texas 77292</td>
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<tr>
<td>St. Joseph Regional Health Center</td>
<td>Liberty Dialysis</td>
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<tr>
<td>2801 Franciscan Drive</td>
<td>2390 East 29th Street</td>
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<tr>
<td>Bryan, TX 77802</td>
<td>Bryan, TX 77802</td>
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<tr>
<td>Memorial Hermann Hospital-Texas Medical Center</td>
<td>Preventative Nutrition Specialists</td>
</tr>
<tr>
<td>6411 Fannin, Houston, TX 77030</td>
<td>2006 Turning Leaf Dr</td>
</tr>
<tr>
<td>St. Joseph Regional Health Center</td>
<td>Bryan, TX 77807</td>
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<tr>
<td>2801 Franciscan Drive</td>
<td>Liberty Dialysis</td>
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<tr>
<td>Bryan, TX 77802</td>
<td>2390 East 29th Street</td>
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<tr>
<td>Memorial Hermann Hospital-Texas Medical Center</td>
<td>Preventative Nutrition Specialists</td>
</tr>
<tr>
<td>6400 Fannin, Suite 1400</td>
<td>2006 Turning Leaf Dr</td>
</tr>
<tr>
<td>Houston, TX 77030</td>
<td>Bryan, TX 77807</td>
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<tr>
<td>St. Joseph Regional Health Center</td>
<td>Liberty Dialysis</td>
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<tr>
<td>2801 Franciscan Drive</td>
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<tr>
<td>Bryan, TX 77802</td>
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<td>Memorial Hermann Hospital-Texas Medical Center</td>
<td>Preventative Nutrition Specialists</td>
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<tr>
<td>6400 Fannin, Suite 1400</td>
<td>2006 Turning Leaf Dr</td>
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<td>Houston, TX 77030</td>
<td>Bryan, TX 77807</td>
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<td>St. Joseph Regional Health Center</td>
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<td>2801 Franciscan Drive</td>
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<tr>
<td>Houston, TX 77030</td>
<td>Bryan, TX 77807</td>
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</table>

<table>
<thead>
<tr>
<th>Community Rotation Sites</th>
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<tbody>
<tr>
<td>BVCAAA WIC</td>
<td>Bell County WIC</td>
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<tr>
<td>3400 S. Texas Ave., Ste 1</td>
<td>201 North 8th Street</td>
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<td>Bryan, TX 77802</td>
<td>Temple, TX 76501</td>
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<tr>
<td>Austin Public Health (APH) Department</td>
<td>UT Health Science Center – WIC Program</td>
</tr>
<tr>
<td>City of Austin</td>
<td>Department of Pediatrics</td>
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<tr>
<td>1000 East 11th Street, Ste 400</td>
<td>2636 South Loop West, Suite #625</td>
</tr>
<tr>
<td>Austin, Texas 78702</td>
<td>Houston, TX 77054</td>
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<tr>
<td>Recipe for Success Foundation</td>
<td>City of San Antonio Metropolitan Health District</td>
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<tr>
<td>P. O. Box 56405</td>
<td>111 Soledad, Suite 1000, San Antonio, TX 78205</td>
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<tr>
<td>Houston, TX 77256</td>
<td>TAMU AgriLife Extension</td>
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<tr>
<td>CHEF: Culinary Health Education for Families</td>
<td>120 Cater-Mattl</td>
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<td>Location</td>
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<td>---------------------------------------------</td>
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<tr>
<td>San Antonio, Texas 78215</td>
<td>2253 TAMU College Station, TX 77843-2253</td>
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<tr>
<td>Waco Meals on Wheels 501 W. Waco Drive</td>
<td>Cooper Clinic Nutrition Department 12200 Preston Rd. Dallas, TX 75230</td>
</tr>
<tr>
<td>Waco, Texas 76707</td>
<td></td>
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<tr>
<td>Excellence in Health (Entrepreneurial) 5033</td>
<td>TAMU Student Health Services 005 A.P. Beutal Health Center, TAMU 1264 College Station, TX 77843-1264</td>
</tr>
<tr>
<td>Rosenthal Parkway Lorena, TX 76655-4016</td>
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<tr>
<td>Cardiac Rehab Memorial Hermann Hospital-TMC</td>
<td>Memorial Hermann IRONMAN Sports Medicine Institute 17520 W Grand Parkway South, Suite 100 Sugar Land, TX 77479</td>
</tr>
<tr>
<td>6414 Fannin, Suite G100 Houston, TX 77030</td>
<td></td>
</tr>
<tr>
<td>Neily on Nutrition 6238 Belmont Dallas, TX</td>
<td></td>
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<tr>
<td>75214</td>
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</tbody>
</table>

**Specialty Sites**

Policy Initiatives and Advocacy Academy of Nutrition and Dietetics 1120 Connecticut Ave, NW Ste. 460

**Food Service Management Sites**

<table>
<thead>
<tr>
<th>District</th>
<th>Address</th>
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<tbody>
<tr>
<td>College Station Independent School District</td>
<td>Bryan Independent School District 1920 N. Earl Rudder Freeway Bryan, TX 77808 (979)209-7060</td>
</tr>
<tr>
<td>1812 Welsh, Ste. 140 College Station, TX 77840</td>
<td></td>
</tr>
<tr>
<td>Belton Independent School District 1220 Huey Dr. Belton, TX 76513</td>
<td>Brenham Independent School District 1301 Niebuhr Brenham, TX 77833</td>
</tr>
<tr>
<td>Klein Independent School District Nutrition and Food Services 7500 FM 2920 Rd. Klein, TX 77379</td>
<td>Cypress-Fairbanks Independent School District Food Production Center 11355 Perry Road Houston, TX 77064</td>
</tr>
<tr>
<td>Round Rock Independent School District 16255 Great Oaks Dr. Round Rock, TX 78681</td>
<td>Crestview Methodist Retirement Community 2505 East Villa Maria Road Bryan, TX 77802</td>
</tr>
</tbody>
</table>
H. Letters of Support from Peer Institutions and/or Area Employers

The following are letters of support from preceptors that work closely with our students.

DEPARTMENT OF VETERANS AFFAIRS
Central Texas Veterans Health Care System
1901 Veterans Memorial Drive
Temple, Texas 76504

Date: July 12, 2018

Greetings,

I am the Clinical Nutrition Manager at the Central Texas Veterans Healthcare System in Temple, Texas. This facility is a Joint Commission accredited complex that provides a number of services to Veterans in the Central Texas area, including an inpatient acute care hospital in Temple, community-based outpatient clinics in five cities, two community living centers, a domiciliary, and a psychosocial residential rehabilitation treatment program. All of these sites serve as training sites for dietetic interns in the Texas A&M Dietetic Internship Program. We have accepted interns from the A&M Dietetic Internship Program since 1982.

It has come to my attention that the A&M Dietetic Internship Program is in the process of seeking approval for a Master’s of Clinical Nutrition degree. This new graduate option will enhance the dietetic internship program to include an option to seek a Master’s degree combined with the dietetic internship, or supervised practice, component that is currently offered. This new option will include coursework completed at the College Station campus, followed by the dietetic internship supervised practice. The length of the supervised practice, as well as the activities completed by the dietetic intern will not change with this new graduate option. In fact, completion of one year of graduate work prior to working with dietitians at our facility can only improve the analytical thinking of the dietetic intern. Based on this, I support the program’s efforts to pursue this graduate option, as it aligns with the future requirements to become a Registered Dietitian.

We look forward to continued collaboration with the Texas A&M Dietetic Internship Program as it makes efforts to grow with the profession.

Thank you for your time,

Awbrey Lovrien-Moore, MS, RD
Clinical Nutrition Manager
Central Texas Veteran’s Healthcare System
Temple, TX
To Whom It May Concern:

I am writing this letter in support of the Texas A&M Dietetic Internship (DI) Program. I am the Clinical Nutrition Director at Baylor Scott & White Health in Temple, Texas. We have been affiliate with the Texas A&M DI Program since its inception in 1982. Our facility provides a number of supervised practice experiences for the dietetic interns in areas such as inpatient adult and pediatric care, outpatient adult and pediatric care, critical care, and food services management. The dietetic interns work with dietitians on staff who assist in the training of the interns, preparing them for entry-level practice after passing the exam to become a registered dietitian (RD). As a result of this collaboration, we have also hired a number of graduates of the Texas A&M DI. At this time, there are four full-time staff members at our facility who were once Texas A&M dietetic interns. They are now RDs and serve as preceptors of dietetic interns of the Texas A&M and other DI programs.

In order to comply with future requirements of the dietetics profession, the Texas A&M DI Program and the Department of Nutrition and Food Science would like to combine the dietetic internship program with a graduate program at the Master’s level. The motivation for this is that starting in 2024 all candidates for the RD exam must have a minimum of a Master’s degree. The advancement of the DI program to be combined with a graduate degree does not alter our commitment to assist with training the dietetic interns. The impact this will make on our current role as preceptors is minimal.

Do not hesitate to contact me with any questions.

Best regards,

Jennifer Balz, MA, RD, CSP, LD
Patient Services and Clinical Nutrition Director
Baylor Scott & White Health
Jennifer.Balz@BSWHealth.org
(254) 724-2283
### COSTS TO THE INSTITUTION OF THE PROPOSED PROGRAM

<table>
<thead>
<tr>
<th>Cost Category</th>
<th>Cost Sub-Category</th>
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<td>17,101</td>
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<td>85,505</td>
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<tr>
<td>Student Support (Scholarships)</td>
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</tr>
<tr>
<td>Supplies and Materials</td>
<td>3,000</td>
<td>3,000</td>
<td>3,000</td>
<td>3,000</td>
<td>3,000</td>
<td>3,000</td>
<td>15,000</td>
</tr>
<tr>
<td>Library &amp; Instructional Technology Resources</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equipment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Facilities</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (Identify)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td></td>
<td>75,942</td>
<td>75,942</td>
<td>75,942</td>
<td>75,942</td>
<td>75,942</td>
<td>379,710</td>
</tr>
</tbody>
</table>

1 Report costs for new faculty hires, graduate assistants, and technical support personnel. For new faculty, prorate individual salaries as a percentage of the time assigned to the program. If existing faculty will contribute to program, include costs necessary to maintain existing programs (e.g., cost of adjunct to cover courses previously taught by faculty who would teach in new program).

2 Equipment has the meaning established in the Texas Administrative Code §252.7(3) as items and components whose cost are over $5,000 and have a useful life of at least one year.
### Anticipated Sources of Funding

<table>
<thead>
<tr>
<th>Funding Category</th>
<th>1st Year</th>
<th>2nd Year</th>
<th>3rd Year</th>
<th>4th Year</th>
<th>5th Year</th>
<th>TOTALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Formula Funding¹</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>II. Other State Funding</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>III. Reallocation of Existing Resources</td>
<td>72,942</td>
<td>72,942</td>
<td>72,942</td>
<td>72,942</td>
<td>72,942</td>
<td>364,710</td>
</tr>
<tr>
<td>IV. Federal Funding (In-hand only)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>V. Tuition and Fees</td>
<td>226,528</td>
<td>357,519</td>
<td>420,694</td>
<td>426,654</td>
<td>426,654</td>
<td>1,858,049</td>
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<tr>
<td>VI. Other Funding²</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTALS</td>
<td>280,990</td>
<td>401,293</td>
<td>664,049</td>
<td>669,540</td>
<td>669,540</td>
<td>2,837,012</td>
</tr>
</tbody>
</table>

¹Indicate formula funding for students new to the institution because of the program; formula funding should be included only for years three through five of the program and should reflect enrollment projections for years three through five.

²Report other sources of funding here. In-hand grants, “likely” future grants, and special item funding can be included.
Non-Formula Sources of Funding

Complete the table to specify each of the non-formula funding sources for the amounts listed on the Anticipated Sources of Funding form.

<table>
<thead>
<tr>
<th>Funding Category</th>
<th>Non-Formula Funding Sources</th>
</tr>
</thead>
<tbody>
<tr>
<td>II. Other State Funding</td>
<td>#1</td>
</tr>
<tr>
<td></td>
<td>#2</td>
</tr>
<tr>
<td>III. Reallocation of Existing Resources</td>
<td>#1 Education and General 02-130010 –Program Administration and Staff Support</td>
</tr>
<tr>
<td></td>
<td>#2 Graduate Enhancement 02-130089-Graduate Assistantships</td>
</tr>
<tr>
<td>IV. Federal Funding (In-hand only)</td>
<td>#1</td>
</tr>
<tr>
<td></td>
<td>#2</td>
</tr>
<tr>
<td>V. Tuition and Fees</td>
<td>#1 Dietetic Intern Fees.</td>
</tr>
<tr>
<td></td>
<td>#2 Board Authorized tuition, Statutory tuition, Designated tuition, Graduate tuition, Course fees $200</td>
</tr>
<tr>
<td>VI. Other Funding</td>
<td></td>
</tr>
</tbody>
</table>
Signature Page

1. **Adequacy of Funding and Notification of Other Institutions** – The Chief Executive Officer shall sign the following statements:

   *I certify that the institution has adequate funds to cover the costs of the proposed program. Furthermore, the proposed program will not reduce the effectiveness or quality of existing programs at the institution.*

   *I certify that my institution has notified all public institutions within 50 miles of the teaching site of our intention to offer the proposed program at least 30 days prior to submitting this request. I also certify that if any objections were received, those objections were resolved prior to the submission of this proposal.*

   *I certify that my institution will adhere to Texas Education Code (TEC), Sections 61.822 through 61.823, requiring my institution to accept and apply to the proposed program Core Curriculum and Field of Study courses in transfer.*

--------------------------------------------------------
Chief Executive Officer _______________________________ Date _______________________________

2. **Accuracy of Financial Estimates** – The Chief Financial Officer shall sign the following statement:

   *I certify that the estimated costs and sources of funding presented in the proposal are complete and accurate.*

--------------------------------------------------------
Chief Financial Officer _______________________________ Date _______________________________

A new signature requirement from the chief financial officer.

3. **Board of Regents or Designee Approval** – A member of the Board of Regents or designee shall sign the following statement:

   *On behalf of the Board of Regents, I hereby certify that the proposed program is appropriate for the mission of this institution and the Board of Regents has approved the proposed program.*

--------------------------------------------------------
Board of Regents (Designee) _______________________________ Date _______________________________
# New Bachelor’s and Master’s Degree Program Request Form

**Directions:** Texas public universities and health-related institutions complete this form to add a new bachelor’s or master’s degree program, if the following criteria for approval are met, per Texas Administrative Code (TAC), Title 19, Chapter 5, Subchapter C, Section 5.44 (a) (3): (A) the proposed program has institutional and board of regents approval; (B) the institution certifies compliance with the Standards for New Bachelor’s and Master’s Programs; (C) the institution certifies that adequate funds are available to cover the costs of the new program; (D) new costs to the program during the first five years of the program would not exceed $2 million; (E) the proposed program is a non-engineering program; and (F) the proposed program would be offered by a public university or health-related institution.

If the proposed program does not meet the criteria listed above, the institution must submit a request using the Full Request Form.

This form requires the signatures of: (1) the Chief Executive Officer, certifying adherence to the Texas Administrative Code (TAC), Title 19, Chapter 5, Subchapter C, Section 5.44 (a) (3) criteria, adequacy of funding for the new program, the notification of other Texas public institutions of higher education, and adherence to Texas Education Code (TEC) Sections 61.822 through 61.823; and (2) a member of the Board of Regents (or designee) certifying Board approval.

**Contact:** Division of Academic Quality and Workforce, 512-427-6200.

## Administrative Information

1. **Institution Name and Coordinating Board Accountability Group:**
   
   Texas A&M University

2. **Proposed Program:**
   
   Show how the proposed program would appear on the institution’s Program Inventory (e.g., Bachelor of Business Administration with a major in accounting).

   Master of Clinical Nutrition

3. **Proposed CIP Code:**
   
   List of CIP Codes may be accessed online at [www.txhighereddata.org/Interactive/CIP/](http://www.txhighereddata.org/Interactive/CIP/). Include justification if the proposed program name is not included in the Texas Classification of Instructional Programs.

   30.1901.00
4. Semester Credit Hours Required:
   Bachelor’s degree programs should not exceed 120 semester credit hours (SCH). If the number of SCH exceeds 120 for a bachelor’s degree program, the institution must submit documentation explaining the compelling academic reason. Master’s degree programs do not have semester credit hour restrictions; however, 30 to 36 SCH is common.

   36 SCH

5. Location and Delivery of the Proposed Program:
   Provide the location of instruction and how the proposed program will be delivered to students (e.g., Instructed on the main campus in Lubbock, face-to-face).

   Instruction on the main campus of Texas A&M University, College Station, face-to-face with an off-campus clinical internship.

6. Administrative Unit:
   Identify where the proposed program would fit within the organizational structure of the institution (e.g., Department of Biology within the College of Natural Sciences).

   Department of Nutrition and Food Science within the College of Agriculture and Life Sciences

7. Proposed Implementation Date:
   Provide the date that students would enter the proposed program (MM/DD/YYYY).

   August 1, 2020

8. Institutional and Department Contacts:
   Provide contact information for the person(s) responsible for addressing any questions related to the proposed program.

   1. Name: Dr. Steve Talcott
      Title: Professor and Associate Department Head, Nutrition and Food Science
      E-mail: stalcott@tamu.edu
      Phone: 979-862-4056

   2. Name: Ms. Karen Geismar, M.S.
      Title: Lecturer, Registered Dietitian, and Dietetic Internship Director
      E-mail: ksgeismar@tamu.edu
      Phone: 979-845-5713
Signature Page

1. **Chief Executive Officer Certification** – The Chief Executive Officer shall sign the following statements:

   I hereby certify that all of the following criteria have been met in accordance with the procedures outlined in Texas Administrative Code (TAC), Title 19, Chapter 5, Subchapter C, Section 5.44 (a) (3):

   (A) The proposed program has institutional and governing board approval.

   (B) The institution certifies compliance with the *Standards for New Bachelor’s and Master’s Programs*.

   (C) The institution certifies that adequate funds are available to cover the costs of the new program.

   (D) New costs during the first five years of the program would not exceed $2 million.

   (E) The proposed program is a non-engineering program.

   (F) The proposed program would be offered by a public university or health-related institution.

   *I certify that my institution has notified all public institutions within 50 miles of the teaching site of our intention to offer the proposed program at least 30 days prior to submitting this request. I also certify that if any objections were received, those objections were resolved prior to the submission of this request.*

   *I certify that my institution will adhere to Texas Education Code (TEC), Sections 61.822 through 61.823, requiring my institution to accept and apply to the degree program Core Curriculum and Field of Study courses in transfer.*

   ____________________________  ____________________________
   Carol A. Fierke, PhD          Date
   Provost and Executive Vice President

2. **Board of Regents or Designee Approval** – A member of the Board of Regents or designee shall sign the following statement:

   *On behalf of the Board of Regents, I hereby certify that the proposed program is appropriate for the mission of this institution, and the Board of Regents has approved the proposed program.*

   ____________________________
   Date

   ____________________________
   Date

   Board of Regents (Designee)