



- PUBLIC
 INDEPENDENT

NEW PROGRAM PROPOSAL FOR ROUTINE REVIEW

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Sponsoring Institution: Missouri State University

Program Title: Nutrition and Dietetics

Degree/Certificate: MS-Master of Science

If other, please list: Click here to enter text

Options: Click here to enter text

Delivery Site: Missouri State University

CIP Classification: 51.3101

Implementation Date: 8/20/2018

Is this a new off-site location? Yes No

If yes, is the new location within your institution's current CBHE-approved service region?

*If no, public institutions should consult the comprehensive review process

Is this a collaborative program? Yes No

*If yes, please complete the collaborative programs form on last page.

CERTIFICATIONS

- The program is within the institution's CBHE approved mission. (public only)
The program will be offered within the institution's CBHE approved service region. (public only)
The program builds upon existing programs and faculty expertise
The program does not unnecessarily duplicate an existing program in the geographically-applicable area.
The program can be launched with minimal expense and falls within the institution's current operating budget. (public only)

AUTHORIZATION

Dr. Frank Einhellig, Provost Signature Date 6/22/18

PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS

Although all of the following guidelines may not be applicable to the proposed program, please carefully consider the elements in each area and respond as completely as possible in the format below.

Quantification of performance goals should be included wherever possible.

1. Student Preparation

- Any special admissions procedures or student qualifications required for this program which exceed regular university admissions, standards, e.g., ACT score, completion of core curriculum, portfolio, personal interview, etc. Please note if no special preparation will be required.

To be considered for admission to the Master of Science in Nutrition and Dietetics (MSND), a prospective student must be admitted to Missouri State's Dietetic Internship Graduate Certificate Program (DI) or provide a copy of their Registered Dietitian and Nutritionist (RDN) identification card issued by the Commission on Dietetic Registration.

Final admission decisions will be based on a complete application form to the Graduate College. There is a \$35 graduate program application fee per the MSU Graduate College policy. A complete application includes the following:

1. Evidence of meeting the minimum academic requirements from an Accreditation Council for Education in Nutrition and Dietetics (ACEND)-approved Didactic Program in Dietetics by a "Verification Statement" or "Declaration of Intent to Complete Degree" and/or ACEND-approved "Minimum Academic Requirements."
2. Completion of the baccalaureate degree from an ACEND-accredited college or university.
3. Cumulative GPA of at least 3.00 over the last 60 hours of academic work taken.
4. Graduate Record Examination (GRE) taken no earlier than five years prior to application with preferred minimum scores of 150 in Verbal, 141 in Quantitative, and 4 in the Writing Sections.
5. A personal philosophy statement that addresses the applicant's professional career goals and how the program will help accomplish these goals.
6. Students for whom English is a second language must earn a minimum score of 600 (paper-based), 250 (computer-based), or 100 (internet-based) within two years prior to application on the Test of English as a Foreign Language (TOEFL). The TOEFL website is <http://www.toefl.org>.
7. Three written recommendations received with the application must be without significant reservations/concern.
 - a. Dietetic academic reference
 - b. Work or volunteer reference
 - c. Final reference is the applicant's choice
8. A resume which includes:
 - a. Work experience in dietetics, including number of hours of paid and volunteered work
 - b. Involvement in college and/or community activities
9. Evidence of being admitted to MSU's DI certificate program or a copy of their RDN identification card.

Upon acceptance to the MSND program, additional requirements will include:

1. Meet non-academic technical standards of the program, with or without accommodations, in order to successfully undertake the course of study. These standards are available upon request from the program.
2. Provide evidence of immunization or vaccination for vaccine-preventable diseases to include MMR, tetanus, TB test, Hepatitis A, and a complete Hepatitis B series including a titer demonstrating immunity. Other vaccinations may be required such as a seasonal flu vaccine.
3. Provide evidence of professional liability and health insurance, including hospitalization.
4. Provide documentation of negative tuberculosis status or evidence of appropriate follow-up.
5. Provide evidence of vehicle liability insurance that meets or exceeds the minimum requirements of the State of Missouri.
6. Provide evidence of membership in the Academy of Nutrition and Dietetics.
7. Complete a drug screening test and criminal record check and receive response that the applicant has not been convicted of any crime pursuant to Section 324.217 or other disqualifications that would prohibit licensure as a RDN.

Full admission to the MSND program is competitive; not all that apply will be admitted. Students who are not admitted into the program may apply for the next application deadline.

- Characteristics of a specific population to be served, if applicable.
The population served will be students who desire to complete a Master of Science degree while fulfilling the educational requirements to become a RDN or RDNs who want to pursue a master's degree to further their education.

2. Faculty Characteristics

- Any special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate.

Have a designated program director (already in place). Program director must:

- i. Have earned a doctoral degree and have three years professional experience post credentialing or have earned a master's degree and have five years professional experience post credentialing.
- ii. Be credentialed as a RDN, registered by the Commission on Dietetic Registration.
- iii. Be a full-time faculty member.

Program faculty must:

- i. Have earned a master's degree or higher in their area of expertise.
- ii. Meet the criteria for appointment to graduate faculty status and have sufficient education and experience in a field related to the subject in which they teach.
- iii. Show evidence of continued competency appropriate to their teaching responsibilities, through professional work experience, graduate education, continuing education, scholarship/research or other activities leading to professional growth in the advancement of their profession.

- Estimated percentage of credit hours that will be assigned to full time faculty. Please use the term "full time faculty" (and not FTE) in your descriptions here.

It is expected that 90% of the courses within the program will be assigned to full time faculty. If a particular set of knowledge is required that a current full time faculty member does not possess, per course instructors with that knowledge will be utilized to teach, co-teach, or provide guest lectures.

- Expectations for professional activities, special student contact, teaching/learning innovation.

Dietetic faculty members must maintain their dietetics registration and Missouri licensure by completing 75 continuing education units every five years. Faculty are encouraged to be involved in the dietetics profession at the local, state, and national level. This involvement includes attending professional development activities, and attending and presenting at state and national conferences.

Faculty will have student contact in the classroom, through interprofessional experiences, at supervised practice sites, through research projects and theses, and through advisement and mentorship.

Teaching/learning innovations will include traditional didactic methods, supervised practice, interprofessional education experiences, simulation-based cases, journal clubs, case studies, individual- and group-based projects, a research project or thesis, and other techniques faculty choose to utilize.

3. Enrollment Projections

- Student FTE majoring in program by the end of five years.
Projected to be 10 students FTE by the end of five years.
- Percent of full time and part time enrollment by the end of five years.
By the end of five years, 83% of enrollment will be full time students and 17% will be part time students.

STUDENT ENROLLMENT PROJECTIONS.

YEAR	1	2	3	4	5
Full Time	3	7	8	9	10
Part Time	1	2	2	2	2
Total	4	9	10	11	12

4. Student and Program Outcomes

- Number of graduates per annum at three and five years after implementation.
3 years: 4 graduates (Included four full-time students and zero part-time students in this graduates per annum projection.)
5 years: 6 graduates (Included five full-time students and one part-time student in this graduates per annum projection.)

- Special skills specific to the program.

Students will demonstrate achievement of the following areas:

- *Foundational Knowledge*: Applies foundational sciences to food and nutrition knowledge to meet the needs of individuals, groups, and organizations.
 - *Client/Patient Services*: Applies and integrates client/patient-centered principles and competent nutrition and dietetics practice to ensure positive outcomes. In addition, integrates the principles of cultural competence within nutrition and dietetics practice.
 - *Food Systems Management*: Applies food systems principles and management skills to ensure safe and efficient delivery of food and water.
 - *Community and Population Health Nutrition*: Applies community and population nutrition health theories when providing support to community or population nutrition programs.
 - *Leadership, Business, Management and Organization*: Demonstrates ethical leadership, business and management principles to guide practice and achieve operational goals.
 - *Critical Thinking, Research and Evidence-Informed Practice*: Integrates evidence-informed practice, research principles, and critical thinking into practice.
 - *Core Professional Behaviors*: Demonstrates professional behaviors and effective communication in all nutrition and dietetics interactions.
- Proportion of students who will achieve licensing, certification, or registration.

For program graduates who are not RDNs, it is projected at least 80% will pass the registration examination to RDNs. Graduates who pass this exam are required by most states to apply for a state license to practice dietetics in the state they reside in.

- Performance on national and/or local assessments, e.g., percent of students scoring above the 50th percentile on normed tests; percent of students achieving minimal cut-scores on criterion-referenced tests. Include expected results on assessments of general education and on exit assessments in a particular discipline as well as the name of any nationally recognized assessments used.

For program graduates who are not RDNs, it is projected the graduates' total scaled scores on the registration examination for RDNs will exceed the national mean.

- Placement rates in related fields, in other fields, unemployed.

It is estimated at least 80% of graduates will be employed in field or seek further education. The goal is for these graduates to be employed within six months of program completion. In addition, it is estimated that 10% will seek employment in other fields, and 10% will be unemployed due to life circumstances.

Transfer rates, continuous study.

Non-applicable for graduate programs.

5. Program Accreditation

- Institutional plans for accreditation, if applicable, including accrediting agency and timeline. If there are no plans to seek specialized accreditation, please provide rationale.

This is currently not applicable. Dietetic education's accrediting organization is the Accreditation Council on Education in Nutrition and Dietetics (ACEND). The Commission on Dietetic Registration (CDR) is the credentialing organization for RDNs.

The Council on Future Practice (CFP) Visioning Report and Consensus Agreement for Moving Forward the Continuum of Dietetics Education, Credentialing and Practice was published in the Journal of the Academy of Nutrition and Dietetics in January 2013.¹

One of CFP's proposals is to elevate the educational preparation for the future entry-level RDN to a minimum of a graduate degree from an ACEND-accredited program.¹

The CDR voted to approve this change and mandated that all programs implement it no later than 2024. ACEND has since written Future Education Model Accreditation Standards for Graduate Degree Programs.

ACEND is currently completing pilot studies of the future education model accreditation standards. It is anticipated that ACEND will mandate all dietetic graduate degree programs seek accreditation in 2024. We will apply for accreditation once ACEND establishes the standards and timeline.

6. Program Structure

A. Total credits required for graduation: 42-45 credits

B. Residency requirements, if any:

At least 30-32 credit hours must be completed in residency (70% of the total required hours). On a case-by-case basis, Missouri State may accept graduate credit earned at other regionally accredited institutions. The Missouri State University Graduate transfer policy allows transfer credit to count for up to 30% of the program of study. Students who are RDNs may transfer hours for DTN 740, 741, 742, and 743. A student requesting transfer credit is responsible for providing an official transcript and copy of course syllabus from the school from which the student received the academic credit. Acceptance of transfer credits occurs through recommendation of the student's major advisor and approval of the Graduate College.

C. General education: Total credits:
Not applicable. No general education for graduate degrees.

Courses (specific courses OR distribution area and credits)

Course Number	Credits	Course Title
n/a		

D. Major (i.e., Degree) requirements: Total credits: 42-45

Core Courses (Required of all students)		
Total credits = 39		
Course ID	Course Title	Credits

DTN 750	Advanced Medical Nutrition Therapy	1
DTN 752	Advanced Population Health Nutrition I	1
DTN 762	Advanced Population Health Nutrition II	2
DTN 753	Advanced Food Service Management	1
DTN 755	Advanced Nutrition Counseling	1
PBH 710	Clinical Epidemiology	3
PBH 730	Biostatistics in Health Sciences	3
PBH 740	Health Behavior	3
MGT 701	Health Services Organization	3
PBH 760	Research Methods in Public Health	3
PBH 775	Principles and Skills of Public Health Administration	3
DTN 740	Medical Nutrition Therapy I Practicum	3
DTN 741	Medical Nutrition Therapy II Practicum	3
DTN 742	Public Health Practicum	3
DTN 743	Food Service Management Practicum	3
DTN 744	Practicum in Area of Concentration	3
Elective Courses		
Total credits = 0		
Course ID	Course Title	Credits
Thesis/Non-Thesis		
Total credits = 3-6		
Course ID	Course Title	Credits
DTN 797 OR	Non-Thesis Project	3
DTN 799	Thesis	3-6

E. Free elective credits: 0
(sum of C, D, and E should equal A)

F. Requirements for thesis, internship or other capstone experience:

Requirements for Practicum:

Students who are not RDNs will enroll in 12 hours of practicum courses (DTN 740, 741, 742, and 743). Students holding the RDN credential may transfer in these 12 practicum hours, as this is 30% of the 42 total credit hours. This meets Missouri State's Graduate College transfer policy which allows transfer credit to count for up to 30% of the program of study.

Requirements for Non-Thesis Project:

Students will complete in-depth scientific study of a nutrition and dietetics problem of interest that culminates in a scholarly paper and formal community presentation. Students will need to have a research project proposal approved by their faculty supervisor and program director prior to enrollment in DTN 797. In addition, students will have concurrent enrollment in DTN 744. This course is where students complete the field experience that contributes data to their non-thesis project. Students will complete a minimum of 240 hours, and pass a comprehensive exam in DTN 744.

Requirements for Thesis:

Students will demonstrate capacity for research and independent thought culminating in a thesis and thesis defense. Thesis will align with Missouri State University's Graduate College thesis guidelines and template, which include a literature review, methods, results, and discussion.

G. Any unique features such as interdepartmental cooperation:

The program will utilize Masters of Public Health Program courses already offered within the College of Health and Human Services (CHHS).

In addition, the program will utilize a course in the Department of Management and Information Technology, Master of Health Administration program. This course is MGT 701, Health Services Organization.

The program will collaborate with other Missouri State University allied health programs who participate in CHHS's interprofessional education (IPE) practices. These include IPE simulation, case study, clinical conversations, and grand rounds.

7. Need/Demand

Student demand

Market demand

Societal demand

I hereby certify that the institution has conducted research on the feasibility of the proposal and it is likely the program will be successful.

On July 1, 2011, the Coordinating Board for Higher Education began provisionally approving all new programs with a subsequent review and consideration for full approval after five years.

COLLABORATIVE PROGRAMS

- **Sponsoring Institution One:**
- **Sponsoring Institution Two:**
- **Other Collaborative Institutions:** not applicable
- **Length of Agreement:** not applicable
- **Which institution(s) will have degree-granting authority?** not applicable
- **Which institution(s) will have the authority for faculty hiring, course assignment, evaluation and reappointment decisions?** not applicable
- **What agreements exist to ensure that faculty from all participating institutions will be involved in decisions about the curriculum, admissions standards, exit requirements?**
not applicable
- **Which institution(s) will be responsible for academic and student-support services, e.g., registration, advising, library, academic assistance, financial aid, etc.?**
not applicable
- **What agreements exist to ensure that the academic calendars of the participating institutions have been aligned as needed?**
not applicable

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References

1. Kicklighter JR, Cluskey M, Hunter AM, Nyland N, Spear BA. Council on future practice visioning report and consensus agreement for moving forward the continuum of dietetics education, credentialing, and practice. *J Acad Nutr Diet.* 2013;113(12):1710-1732.