

LOGAN UNIVERSITY

1851 Schoettler Road, Chesterfield, MO 63017
(636) 227-2100 | www.logan.edu

Mr. Leroy Wade, Deputy Commissioner
Missouri Department of Higher Education
205 Jefferson Street
P. O. Box 1469
Jefferson City, MO 65102

Dear Mr. Wade,

It was nice speaking with you yesterday. I am appreciative of the wealth of information you provided to me about Missouri accreditation policies.

As a recap, I have learned the following:

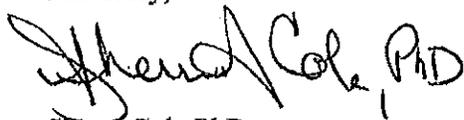
As a non-profit, private institution, Logan University falls into the category of an independent institution with regards to the Missouri Department of Higher Education (MDHE) new program proposals and policies. According to MDHE's website, the MDHE staff reviews and offers comments on programs from independent institutions.

As a new Dean in Logan's College of Health Sciences, I have been familiarizing myself with state, national regulations, and accreditation policies for current and future programs. In my review of MDHE's website, I discovered that Logan University had listings for all of its programs with exception to the M.S. in Nutrition and Human Performance.

It was determined that Logan needs to submit a new program proposal for this Master of Science degree to the MDHE, even though it has already been implemented. I have completed the new program proposal and have attached it to this email for your review.

Please do not hesitate to contact me if you have any questions or require further information. Thank you for your time and patience in this matter.

Sincerely,



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Dean, College of Health Sciences
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NEW PROGRAM PROPOSAL FORM

Sponsoring Institution(s): Logan University

Program Title: Nutrition and Human Performance

Degree/Certificate: Master of Science

Options: n/a

Delivery Site(s): 1851 Schoettler Rd, Chesterfield, MO 63011

CIP Classification: 190501

CIP code can be cross-referenced with programs offered in your region on MDHE'S program inventory higher.ed.mo.gov/ProgramInventory/search.jsp

Implementation Date: Fall 2011

Cooperative Partners:

*If this is a collaborative program, form CL must be included with this proposal

AUTHORIZATION:

Dr. Clay McDonald, President

Name/Title of Institutional Officer

Signature

31-22-13

Date

Dr. Sherri Cole, Dean, College of Health Sciences

(636) 230-2702

Person to Contact for More Information

Telephone



STUDENT ENROLLMENT PROJECTIONS

Year	1	2	3	4	5
Full Time	6	15	34	44	48
Part Time	43	110	164	176	192
Total	49	125	198	220	240

Please provide a rationale regarding how student enrollment projections were calculated:

The first three year projections are actual numbers of students enrolled; year four and five show a projected increase of 22 and 20 students, respectively. This is a conservative number based on a sustainable growth pattern.

Provide a rationale for proposing this program, including evidence of market demand and societal need supported by research.

Graduates of the Master of Science degree in Nutrition and Human Performance are eligible to apply for certification as a Certified Clinical Nutritionist (CCN) through the Clinical Nutrition Certification Board (CNCB). Employment opportunities include corporate wellness and health promotion programs, independent practice as a nutrition consultant, or health educators working in a variety of settings.

National Market Demand

According to the U.S. Bureau of Labor statistics (2013), health care is one of the largest employment industries and provides 14.3 million jobs for wage and salary workers. Of the top 20 fastest growing occupations, 10 of those listings are health care related. Dieticians and Nutritionist occupations are projected to increase by 20% from 2010 to 2020, and health educator occupations are projected to increase 37% (BLS, 2013). The MS in Nutrition and



Human Performance will teach students the skills essential for personalized dietary assessment and planning as well as management of related life-style modifications. This degree program will provide the knowledge necessary for the proper utilization of nutritional supplements, nutraceutical substances, herbs, and whole foods.

According to Forbes (Lariviere, 2013), the nutritional supplement group is one of the fastest growing industries in the world; more broadly known as Vitamins, Minerals and Supplements, or VMS. Producing about \$32 billion in revenue for just nutritional supplements alone in 2012, it is projected to double that by topping \$60 billion in 2021 according to the Nutritional Business Journal. (Lariviere, 2013).

Societal Need

The U.S. Bureau of Labor statistics are projecting three times the number of 80 to 100 years olds and two times the number of 60-79 year olds across the population than ever before by the year 2020 (BLS, 2013). In addition, the Kaiser's State Health Facts (2011) demonstrated that in Missouri:

- Life expectancy for the state of Missouri is 77.5 years of age.
- Twenty-eight percent of the children in Missouri are considered overweight or obese.
- Ten percent of the population of Missouri has been diagnosed with diabetes.
- Missouri's healthcare employment as a percentage of total employment is 10%.

Health centers and corporate wellness centers are stepping forward to challenge Americans to eat and live healthier lives. Elderly patients have very separate nutritional needs in the face of pathology and/or disease than do children who are overweight or have nutritional needs. Nutritionists are needed to promote age specific nutrition and to consult, assess, and evaluate dietary needs within the health care arena or as private practitioners.

Local need

The St. Louis Area Agency on Aging (SLAA) provides home delivered meals to seniors 60 and over as well as to those that are disabled.

All meals meet federal standards and a variety of diet meals are provided. SLAA's goal is to provide healthy foods, nutrition supplements as needed, and good sound nutrition information to the citizens of the City of St. Louis, in the hope of keeping seniors in



their homes and out of the hospital and or the nursing home. (The City of St. Louis, Missouri, 2013)

As our population ages at greater numbers than before, the need for those with skills and knowledge in nutrition and supplements will increase proportionately. Across the St. Louis area (not counting Logan University), there are 2 colleges and universities (St Louis University, and Fontbonne University) that offer nutrition training programs. These programs account for about 25% of all nutrition programs in the state of Missouri, and 0.62% of all programs in the field in the US. There are a total of three programs; two are at the bachelor's level and only one at the master's level. Specifically, bachelors level programs account for about 67% of programs in nutrition (PhDs.org, 2013). In 2010, nutrition degree programs in St. Louis graduated an estimated 52 students. Therefore, of Missouri college nutrition graduates, nearly 25.1% graduated from St. Louis schools. Additionally, college graduates from St. Louis account for an estimated 0.55% of all nutrition graduates in the nation. Between 2006 and 2010, the number of St. Louis based nutrition graduates has grown. In St. Louis, the number of students earning nutrition degrees was approximately 35 in 2006. Thus, the number of students graduating from these programs has experienced a 48.6% increase in recent years. Compared to the growth of the number of students completing nutrition programs in Missouri, St. Louis nutrition programs have grown 13% slower.



PROGRAM STRUCTURE

- A. Total credits required for graduation: 38
- B. Residency requirements, if any: 28 credit hours must be taken at Logan University
- C. General Education: Total Credits: 0

Courses (specific courses OR distribution area and credits):

Course Number	Credits	Course Title

- D. Major requirements: Total credits: 38

Course Number	Credits	Course Title
MSN5000	2	Nutritional Science I
MSN5010	2	Fundamentals of Nutrition
MSN5020	3	Nutrition and Physical Performance
MSN5100	3	Survey of Natural Therapies
MSN5200	3	Exercise/Cardiorespiratory Physiology Practicum
MSN5300	2	Research Methodology
MSN5310	2	Statistical Methods
MSN5325	3	Nutritional Science II
MSN5375	3	Assessment of Nutritional Status
MSN5425	3	Clinical Nutrition in Human Systems
MSN5450	3	Survey of Sustainable Food Systems
MSN5475	4	Lifecycle Nutrition
MSN5704	3	Sports Exercise Testing and Prescription Practicum
MSN5710	3	Nutritional Assessment of Athletes Practicum
MSN5725	3	Clinical Nutrition and Human Performance Practicum
MSN5810	6	Thesis

- E. Free elective credits: 0 (Sum of C, D, and E, should equal A)
- F. Requirements for thesis, internship or other capstone experience: 6 credit hours thesis required (listed in table D)
- G. Any unique features such as interdepartmental cooperation: n/a

www.dhe.mo.gov • info@dhe.mo.gov
 205 Jefferson Street, P. O. Box 1469, Jefferson City, MO 65102 • (573) 751-2361 • (800) 473-6757 • Fax
 (573) 751-6635



PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS

Institution Name: Logan University

Program Name: Master of Science in Nutrition and Human Performance

Date: November 12, 2013

(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**
 1. An applicant must have earned a baccalaureate degree from an accredited college or university. If the baccalaureate degree was earned at an unaccredited institution, an accredited post baccalaureate degree is an acceptable alternative.
 2. All applicants must request that an official transcript be sent directly to Logan from the institution awarding the qualifying entrance degree. If the applicant attended multiple institutions, an official transcript must be sent from each institution attended directly to Logan.
 3. An applicant must present a minimum cumulative grade point average of 2.5 on a 4.0 scale from the qualifying entrance degree.
 4. An applicant must complete the following prerequisite course work from an accredited institution with grades of "C" (2.0 on a 4.0 scale) or better in each.
 - a. Six credit hours of human anatomy and physiology with a minimum of two credit hours in each subject.
 - b. Four credit hours of biochemistry (organic chemistry with at least one laboratory may be substituted).
 - c. Three credit hours of college level math.
 5. An applicant must have passed Part I (a score of 375 or higher on all six subject areas) on the National Board of Chiropractic Examiners OR have a 283 composite score on the Graduate Record Examination (GRE), Verbal and Quantitative sections. The previous minimum qualifying score of 750 (combined verbal and quantitative) will continue to be accepted by applicants who took the exam prior to September 2011 and provide documentation. The GRE score of 750 will be accepted in documentation for up to 5 years (until September of 2016).
 6. An applicant must submit contact information for three references including current name, address, phone number and email address.
 7. An applicant is required to have a personal interview either face-to-face or via telephone.

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2. Faculty Characteristics

- **Any special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate.**
 - Minimum of a Master of Science degree in Nutritional Studies or related field; plus five years of experience; or equivalent combination of education and experience.

- **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.**
 - Full-time faculty will teach approximately 55-60% of the program courses.

- **Expectations for professional activities, special student contact, teaching/learning innovation.**
 - Faculty are expected to comply with all college regulations and policies, committee service, participation in college functions - graduations, and Homecoming.
 - *Service:* expectations include community involvement related to Logan, membership in professional/learned societies, participation in professional/learned societies, and faculty advisor to student clubs.
 - *Academic/Scholastic Activity or Productivity:* expectations include publications in refereed/non-refereed journals, oral presentations, poster presentations, invited conference participant, keynote speaker participation on Boards/Teams of accrediting agencies or task forces, continuing education, certifications, etc.

3. Enrollment Projections

- **Student FTE majoring in program by the end of five years.**
 - 48-80 full-time students

- **Percent of full time and part time enrollment by the end of five years.**
 - 25% full-time, and 75% part-time students

4. Student and Program Outcomes

- **Number of graduates per annum at three and five years after implementation.**
 - 3-year estimate = 64 students; 5-year estimate = 220

- **Special skills specific to the program.**
 - Nutrition assessment and evaluation of nutritional needs for optimal health and wellness.
 - Students will be able to critically evaluate and apply evidence-based peer reviewed nutrition literature to practice and future scientific research.



- An understanding of epidemiological principles regarding the nature and identification of health issues in diverse populations.
 - Recognition of the impact of biological, chemical, behavioral, psychosocial, and environmental factors on nutrition, health and wellness.
 - A detailed study of the nutritional needs of athletes and assessment specific in relationship to their sport and type of activity.
 - An advanced understanding of the relationship between nutrients and exercise metabolism as well as cellular and tissue functioning.
- **Proportion of students who will achieve licensing, certification, or registration.**
 - It is expected that there will be 50-75% of the graduates obtaining certification in the next 3-5 years.
 - **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.**
 - Students have completed a thesis to graduate, and a comprehensive exam. There is not a nationally recognized assessment test in the field of Nutrition at this time.
 - **Placement rates in related fields, in other fields, unemployed.**
 - There is no data on file at this time.
 - **Transfer rates, continuous study.**
 - No student has transferred out of the Nutrition program. There have been two students transfer-in to the program.

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 a rationale.**
 - Currently, there is not an accrediting agency for Clinical Nutrition related programs.

6. Alumni and Employer Survey

- **Expected satisfaction rates for alumni, including timing and method of surveys.**
 - Alumni satisfaction surveys are sent out every six months by email. As most of Logan's Nutrition program students are part time, the students are only now starting to graduate.



- **Expected satisfaction rates for employers, including timing and method of surveys.**
 - As the program progresses, employee satisfaction surveys will be considered as a data collection tool. It is expected that the annual survey results will demonstrate high ratings.

7. Institutional Characteristics

- Characteristics demonstrating why your institution is particularly well-equipped to support the program.
 - Program Director has a PhD in Health Education & Promotion with an emphasis in Sport Psychology; certifications in Certified Health Education Specialist (CHES), and a Certified Consultant in the Association of Applied Sport Psychology (CC-AASP)
 - A Full Time Assistant Professor with a PhD in Nutritional Sciences, Master of Science degree in Nutrition and a bachelor degree in Chemistry
 - Eight part time or adjunct instructors with the following credentials:
 - PhD in Holistic Health Science and Nutrition;
 - PhD in Educational Studies and MS in Nutrition and Dietetics;
 - RDN, CSCS, MS in Dietetics, and MS in Nutrition;
 - MDA, RD, MS in Dietetics Administration, and a bachelor degree in Nutrition;
 - Doctor of Chiropractic and DABCA
 - Doctor of Chiropractic and EdD
 - PhD in Sport and Exercise Science; emphasis in Biometrics
 - Logan University has a Standard Process Nutritional Research Laboratory onsite, specialized equipment and a Biofreeze Sports Rehabilitation Clinic. Students have access to a Dual Energy Absorptiometry (DEXA) machine, and an assessment center for simulated client interactions. There are open classrooms for study or simulations after 4:00PM, interactive classroom technology, and a full time online Blackboard and student support services and tutoring resources.



References

- Bureau of Labor Statistics (BLS) (2011). *State Occupational Employment Statistics Survey*. Retrieved November 11, 2013 from <http://www.bls.gov/data/#employment>
- Lariviere, D. (2013). Nutritional supplements flexing muscles as growth industry. *SportsMoney, Forbes*. Retrieved November 11, 2013 from <http://www.forbes.com/sites/davidlariviere/2013/04/18/nutritional-supplements-flexing-their-muscles-as-growth-industry/>
- PhDs.org, (2013). The best nutrition degree programs in St. Louis, Missouri –rankings table and overview. *Education Index*. Retrieved November 11, 2013 from: <http://graduate-schools.phds.org/education-index/nutrition-degrees-in-st-louis>
- The City of St. Louis, Missouri, (2013). Nutrition programs; meals for the elderly and disabled delivered to the home or provided at the senior centers. Retrieved November 11, 2013 from: <https://stlouis-mo.gov/government/departments/human-services/aging-services/nutrition.cfm>
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