



**NEW PROGRAM PROPOSAL FORM**

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**Sponsoring Institution(s):** University of Central Missouri

**Program Title:** Nutrition

**Degree/Certificate:** Master of Science

**Options:** Sports Nutrition and Clinical Nutrition

**Delivery Site(s):** Main campus, LeesSummit and Distance

**CIP Classification:** Click here to enter text, 19.0504

\*CIP code can be cross-referenced with programs offered in your region on MDHE's program inventory [higher.mo.gov/ProgramInventory/search.jsp](http://higher.mo.gov/ProgramInventory/search.jsp)

**Implementation Date:** Fall 2016

**Cooperative Partners:** NA

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

**AUTHORIZATION:**

Click here to enter text. Kim Andrews, Vice Provost [Signature] 09/29/2015  
Name/Title of Institutional Officer                      Signature                      Date

Dennis Doherty Click here to enter text. Click here to enter text. 660-543-4146  
Person to Contact for More Information                      Telephone



**OFF-SITE DELIVERY OF AN EXISTING PROGRAM FORM**

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**Sponsoring Institution (s):** [Click here to enter text.](#)

Name of Institution (Campus or off-campus residential center in the case of multi-campus institutions).

**Program Title:** Nutrition

**Degree/Certificate:** Master of Science

**Institution Granting Degree:** University of Central Missouri

**Delivery Site(s):** Univeristy of Central Missouri; Warrensburg, and Lees Summit.

**Mode of Program Delivery:** Online and Face-To-Face

**Geographic Location of Student Access:** Kansas City-face-to face. Entire country for Online course format

**CIP Classification:** 19.0504 [Click here to enter text.](#) (Please provide CIP code)

**Implementation Date:** Fall 2016

Semester and Year

**Cooperative Partners:** N/A

**AUTHORIZATION**

*Kim Andrews, Vice Provost*  
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*09/19/2015*

Name/Title of Institutional Officer

Signature

Date

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## Program Justification

### *Key Observations*

By 2024, the Academy of Nutrition and Dietetics will require registered dietitians to hold at least a Master's degree. The Commission on Dietetic Registration (CDR), the credentialing agency for the Academy of Nutrition and Dietetics, recently announced a change in their eligibility requirements to include the completion of a Master's degree in a nutrition-related field. The new Master of Science in Nutrition provides professionals in nutrition and other closely related professional careers an advanced degree with a strong scientific knowledge base focused on gaining proficiency in counseling techniques and the application of nutrition principles in clinical settings. The program also prepares students to apply nutrition knowledge when analyzing human performance and exercise metabolism. The Master of Science in Nutrition provides students with two options, a Clinical Nutrition option and a Sport Nutrition option. Both options address the change in the CDR's entry-level eligibility requirements for dietitians and expands their practice through knowledge gained from this advanced degree.

### *Job Outlook Enrollment and Application Trends*

According to the United States Department of Labor and Bureau of Statistics, employment of dietitians and nutritionists is projected to grow 21 percent from 2012 (67,400 jobs) to 2022 (81,600 jobs) (<http://www.bls.gov/ooh/Healthcare/Dietitians-and-nutritionists.htm> visited Jan 12th 2015).

The number of dietitian job postings in the Kansas City area has grown 60 percent from 2010-2013. Overall, there were 252 job postings in Kansas City, from 2010-2013. All of these job postings require a bachelor's degree. The top health care facilities most likely to employ dietitians or nutrition program graduates are; GNC, St. Lukes Health System, Truman medical center. Dietetics, Nutrition services, Medical nutrition therapy and metabolism are the top specialized skills a nutrition graduate would require in acquiring the nutrition related jobs. Among these job postings, Dietitian and nutritionists, retail sales person and Food Service managers are the three occupations in greatest demand. The arrival of new GNC store in Kansas City area has increased the demand for the nutrition retail sales persons.

**Future Demand:** The new eligibility requirements for the registered dietitian nutritionists increase the demand for the Master of Science in Nutrition, as undergraduate students will need the advanced degree before practicing as entry-level dietitians. Current dietetics practitioners will need to return to graduate school to earn an advanced degree in nutrition to remain competitive in their current positions. In addition, the Master of Science in Nutrition provides great potential to draw students from a variety of professions in the KC Metro Area to the program housed at the UCM Lee's Summit Center. The breadth of potential students for the Master of Science in Nutrition includes not only dietitians, but also area health care providers, physical education teachers, sport coaches, personal trainers, athletic trainers, corporate fitness professionals, and more.

This new Master of Science in Nutrition is an excellent fit for the UCM Lee's Summit Center, meeting unmet academic demands in the KC Metro Area in a very timely manner. In addition, alternative program delivery methods--such as an online format--could be attractive to a wide demographic cross-section of prospective students as well as be lucrative to UCM. Both the Clinical Nutrition option and the Sports Nutrition option of the Master of Science in Nutrition will create a broad array of potential students



**STUDENT ENROLLMENT PROJECTIONS**

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| Year      | 1  | 2  | 3  | 4  | 5  |
|-----------|----|----|----|----|----|
| Full Time | 15 | 20 | 25 | 30 | 35 |
| Part Time | 0  | 0  | 0  | 0  | 0  |
| Total     | 15 | 20 | 25 | 30 | 35 |

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

According to the United States Department of Labor and Bureau of Statistics, employment of dietitians and nutritionists is projected to grow 21 percent from 2012 (67,400 jobs) to 2022 (81,600 jobs). The new eligibility requirement for registered dietitians to hold at least a Master's degree by 2024 will increase the demand for Master of Science in Nutrition program, as undergraduate students will be required to hold the advanced degree before practicing as an entry-level dietitian. The current dietetics practitioners will return to graduate school to earn an advanced degree in nutrition to remain competitive in their current positions. We anticipate student interest in pursuing a MS degree in Nutrition. Conservative estimate of 15 students is expected for the first year. We anticipate future enrollments to be an additional five to ten per year.

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

The Academy of Nutrition and Dietetics requires registered dietitians to hold at least a Master's degree by 2024. The Commission on Dietetic Registration, the credentialing agency for the Academy of Nutrition and Dietetics, recently announced its new entry-level registration eligibility requirements to include that by 2024 registered nutritionists and dietitians must complete a Master's degree in nutrition-related field. The new Master of Science in Nutrition program addresses the change in the entry-level registration eligibility requirements for dietitians, beginning 2024. ACEND has asked universities to consider developing curriculum to address this new change in the requirements. Courses will be taught using Blended Learning Format (some face-to-face and some online).

[www.dhe.mo.gov](http://www.dhe.mo.gov) • [info@dhe.mo.gov](mailto:info@dhe.mo.gov)

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## Evidence of Market Demand/Societal Need Supported by Research



Education  
Advisory  
Board

COE Forum

# Market Demand for Hybrid Master's Nutrition Programs

Evaluating Market Demand for Nutrition Master's Degree in the  
Kansas City Metropolitan Statistical Area

Custom Research Brief

eab.com

# COE Forum

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# 1) Executive Overview

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## Key Observations

Employers do not currently require nutrition professionals to hold master's degrees in nutrition. Seventy percent of job postings for nutrition-related skills do not explicitly require applicants to hold graduate degrees in nutrition and nutrition-related studies. Only 15 total job postings from September 2012 to August 2013 in the Kansas City metropolitan statistical area required graduate degrees compared to the 215 postings that did not specify graduate degrees.

The Academy of Nutrition and Dietetics requires registered nutritionists and dietitians to hold at least a master's degree by 2024. The credentialing agency for the Academy of Nutrition and Dietetics, the Commission on Dietetic Registration, recently amended its entry-level registration eligibility requirements to include that by 2024 registered nutritionists and dietitians must complete a master's in nutrition. Changes in licensing requirements will dramatically increase demand for master's level nutrition degrees as recent nutrition bachelor's graduates will return to school and adult learners will look for flexible degree programs to remain competitive in the nutrition job market.

Elective courses offer the most effective marketing tool for reaching adult learners and nutrition practitioners looking for additional accreditation. Working nutrition professionals seek specialization courses or elective tracks (e.g., whole foods nutrition, agriculture policy) rather than a general program. Specialization gives adult learners and nutrition practitioners the most relevant content and skills to apply directly in current employment positions.

Hybrid nutrition programs' admissions flexibility (e.g., later registration date) and minimal on-campus time commitment enable working adults to enroll. Students do not relocate to attend low residency hybrid programs that only require students to meet once a week or one week a semester on campus. Without relocation needs, programs can accept and register students up to one month before the first class session; this gives hybrid programs a longer period to recruit students. Hybrid programs' asynchronous communication encourages students to develop more thoughtful responses to questions as compared to traditional face-to-face models. Hybrid degrees also provide students face-to-face opportunities to network with other nutrition professionals and to apply the content directly in a lab experience. However, without high residency requirements, hybrid students less frequently complete courses.

Teaching hybrid courses requires additional professional development for faculty to improve instructional effectiveness. Faculty work with online teaching specialists to create more dynamic lessons formatted to improve the digital learning experience. Specialists retrain faculty members to anticipate points of confusion rather than rely on students' body language. Faculty members also work with academic technology support professionals to acclimate to new learning tools and programs. Familiarizing with the necessary technology helps faculty members focus on teaching the course, rather than troubleshooting the technology. Hybrid programs often require two academic technology staff members to train faculty members in learning technology tools and provide technical assistance.

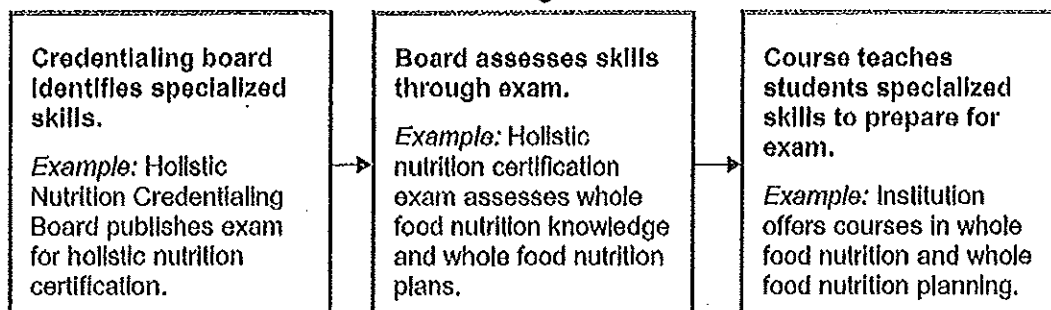
## 2) Master's Degree in Nutrition Program Characteristics

### Course Development

#### **Align Course Content with Nutrition Certification Boards' Certification Exams**

Program directors work with certification boards (e.g., American Board of Clinical Nutrition, Certification Board of Nutrition Specialists) to ensure programs prepare graduates to pass national certification tests.

#### **Nutrition Certification Board Course Alignment Process**



#### **Align Course Content with Employer Demand for Specialized Nutrition Skills such as Dietetics, Nutrition Services, and Therapy**

Program directors identify nutrition fields associated with hospice care as a major area of growth given the aging population. Labor market data suggest employers place an emphasis on skills associated with fitness such as metabolism, weight loss, and corporate wellness.

#### **Top Specialized Skills in Job Postings Requiring Nutrition-Related Skills**

*September 2012- August 2013, Kansas City MSA*

|  |     |
|--|-----|
| <i>Dietetics</i>                                 | 139 |
| <i>Nutrition Services</i>                        | 48  |
| <i>Therapy</i>                                   | 41  |
| <i>Metabolism</i>                                | 34  |
| <i>Record Keeping</i>                            | 29  |
| <i>Mathematics</i>                               | 29  |
| <i>Patient Care</i>                              | 29  |
| <i>Weight Loss</i>                               | 28  |
| <i>Sales</i>                                     | 26  |
| <i>Corporate Wellness</i>                        | 25  |
| <i>Laboratory Testing</i>                        | 25  |
| <i>Fitness and Nutrition</i>                     | 25  |
| <i>Merchandising</i>                             | 23  |
| <i>Description and Demonstration of Products</i> | 23  |
| <i>Long-Term Care</i>                            | 20  |
| <i>Food Service Experience</i>                   | 19  |
| <i>Nutrition Counseling</i>                      | 18  |
| <i>Patient/Family Education and Instruction</i>  | 17  |
| <i>Exercise Programs</i>                         | 17  |
| <i>Treatment Planning</i>                        | 15  |

*n=252, 42 unspecified*

*Source: Burning Glass Labor/Insight™*

## **Hybrid Learning Environments Provide Flexibility for Employed Adult Learners**

Hybrid learning programs allow nutrition practitioners to earn degrees while continuing to work. Minimizing the disruption of attending class on campus increases the market size for students seeking master's degrees in nutrition.



### **Advantages of Hybrid Learning Models**

- **Create more thoughtful responses with asynchronous communication.** With hybrid learning models, students have the opportunity to compose thoughtful and reasoned responses to questions. Traditional, face-to-face learning models prioritize the quickest response to a question.
- **Develop relationships between students and experts in the nutrition field.** In hybrid learning models, students develop relationships with established professionals in the nutrition industry, both instructors and fellow students. These relationships provide context for the nutrition content, and help students network and secure employment.
- **Allow for demonstration of practical skills.** Hybrid learning helps students learn practical skills through labs and other hands-on learning activities not capable of replication online.



### **Disadvantages of Hybrid Learning Models**

- **Generate less revenue.** Hybrid courses often enroll fewer students than traditional, face-to-face courses. Given that faculty members receive similar compensation compared to teaching a traditional, face-to-face course the profit margin for institutions is limited.
- **Cost more to advertise effectively.** Traditional learning models depend on the institution's brand name to attract students. Hybrid models must market towards targeted groups of adult learners to generate interest in hybrid graduate nutrition programs.
- **Require more preparation time for course instruction.** Hybrid courses require faculty to prepare for lectures and be available to answer student questions throughout the day. Compared to face-to-face programs where faculty members receive definite instructional times and establish office hours, hybrid programs require faculty to address student questions more frequently.

## **Retrain Faculty to Effectively Teach Hybrid Nutrition Programs**

Teaching a hybrid nutrition course requires different teaching and pedagogical approaches than teaching traditional, face-to-face nutrition courses. The graduate nutrition program director at Tufts University hired two online teaching specialists to work with nutrition program faculty members to maximize instructional effectiveness. Specialists met with faculty

during one-on-one sessions and taught faculty members new strategies for teaching hybrid nutrition courses, including:

- Becoming comfortable teaching to an empty classroom when recording lectures later posted online,
- Anticipating points of confusion rather than relying on body language to determine when students need more clarity,
- Arranging lectures with clear breaks and opportunities for students to ask questions about the content, and
- Designing presentation slides for easier online consumption.

### ***Nutrition Programs Employ Adjunct Faculty without Doctoral Degrees***

Most nutritionists with doctoral degrees work in nutrition research for private companies such as Kraft Foods rather than at academic institutions. Students benefit from the current practices and knowledge areas that adjunct faculty who work in the nutrition field provide. Nutrition practitioner faculty members serve as networking contacts at nutrition businesses and health care centers.

## **Information Technology Infrastructure**

### ***Existing Campus Content Management Systems such as Blackboard or Moodle Host Online Content***

Nutrition programs at institutions with online campuses or continuing education resources use existing online learning platforms to host online content. The nutrition program at Tufts University uses extra online classroom license spaces originally bought for a different hybrid program. The nutrition program director repurchased the leftover licensing agreements for a small fee, allowing the original program to recoup some of the licensing costs. Use existing continuing education IT infrastructure such as server space to minimize program startup costs.



#### **Develop Continuing Education Partnerships with Armed Forces Education Units to Reduce Costs**

Administrators at Central Michigan University work with the United States military and Michigan's National Guard to create certificate programs specifically designed for military personnel. In exchange for the United States Armed Services funding the necessary IT infrastructure, Central Michigan University offers a reduced tuition rate for military personnel. The nutrition program director uses the existing continuing education infrastructure to support the hybrid graduate nutrition program. Institutions located near military installations or already in partnerships with the military (e.g., Reserve Officers' Training Corps) create extended campus programs in exchange for IT infrastructure development.

## **Academic Support Staff**

### ***Employ at Least Two Academic Technology Support Staff to Train Faculty Members***

Hybrid nutrition programs require dedicated academic technology support staff to train faculty members to effectively use content management systems, digital classrooms, and asynchronous communication tools. Academic technology support staff offer training seminars throughout the academic year and summer to help faculty members acclimate to new technologies.

Academic technology support staff also troubleshoot technical problems during hybrid course sessions such as student log-in problems, posting assessments on content management systems, and maintaining access to collaboration platforms (e.g. video conferencing).

### 3) Student Recruitment

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#### Marketing Messages

#### ***Market Elective Courses within Nutrition Program Rather than the General Degree Program***

Adult learners express more pragmatic nutrition academic interests compared to recent graduates. Adult learners view additional academic certification as a means to a planned end, which makes marketing the general nutrition program ineffective. Market elective tracks to populations who need highly specified knowledge and skills in order to advance professionally, such as public relations professionals earning a nutrition degree with a concentration in nutrition communication to work in the corporate food industry.



#### **Increase Returns on Investment with Targeted Marketing Campaigns**

Targeted marketing campaigns are costly and require nutrition programs to develop elective tracks, but offer better returns on investment compared to general mass marketing campaigns. Institutions must conduct research to identify potential students, which enables staff to place advertisements in locations, mediums, and publications with highly concentrated potential student populations.

#### **Targeted Marketing Strategies**

##### **Market Elective Courses to Dietetic Association Practice Groups**

The American Dietetic Association, a professional organization of nutritionist and dieticians, comprises local chapters and local practice groups with specific topic interests such as diabetes care, infectious disease nutrition, and school nutrition services. Market relevant nutrition program elective tracks to corresponding practice groups (e.g. hospice nutrition track for the Healthy Aging Dietetic Practice Group).

##### **Market Elective Courses to Relevant Alumni Groups**

Professional organizations such as the Peace Corps have vast networks of alumni with similar interests and career aspirations. Market relevant nutrition program elective tracks to alumni groups of related organizations; market humanitarian nutrition electives tracks to Peace Corps alumni through the Peace Corps magazine, for example.

## Employer Marketing

### **Target Marketing Towards Employees of the Major Nutrition Industry Employers (e.g., GNC)**

Many employers offer tuition reimbursement programs for employees who seek additional academic accreditation. Employers in the nutrition industry offer concentrated populations of prospective students interested in earning master's degrees in nutrition.

### **Employers with the Most Job Openings Requiring Nutrition-Related Skills**

September 2012- August 2013, Kansas City MSA

|                                      |    |
|--------------------------------------|----|
| GNC                                  | 17 |
| Saint Luke's Health System           | 16 |
| Truman Medical Centers               | 10 |
| Compass Group                        | 10 |
| Morrison Management Specialists      | 10 |
| North Kansas City Hospital           | 9  |
| Golden Living Centers                | 8  |
| Fresenius Medical Care North America | 7  |
| Lifefline Fitness                    | 7  |
| Hospital Corporation of America      | 7  |
| Davita Incorporated                  | 7  |
| Shawnee Mission Medical Center       | 6  |
| Via Christi Health                   | 6  |
| Sedgwick County                      | 5  |

n=252, 0 unspecified  
Source: Burning Glass Labor/Insight™

## Digital Marketing Media

### **Invest in High Quality Program Websites That Detail Who Benefits from Master's Degrees in Nutrition (e.g., Working Professionals)**

High quality websites with easy navigation tools to access content, a well-functioning search bar, and a coherent design style indicate to prospective students that the host institution is capable of effectively delivering content online. Institutions' ability to effectively deliver content online is a critical deciding factor for adult learners unsure or unfamiliar with hybrid learning formats. Nutrition program websites include brochures detailing the content of the general nutrition program with links further detailing individual elective tracks. Brochures answer:

- Who the program is intended for,
- What skills the program teaches,
- What content areas the program teaches, and
- How students can use the master's degree to advance professionally.



Mobile versions of websites also increase the usability and accessibility as many prospective students commute to work via public transportation and use mobile devices to access the Internet.

## Webinars

### *Program Directors Host Webinars to Engage Directly with Prospective Students*

Prospective students attend online webinars that include a slideshow that discusses the details of the nutrition program and the institution. Since many health care professionals work overnight shifts, offer webinar sessions in the morning and the evening to maximize participation. Webinars include the same information as program websites but provide an additional medium through which prospective students can engage with the program. After the webinar, program directors or nutrition faculty members synchronously answer questions from prospective students in online chat rooms



#### **Rolling Admissions Increase Nutrition Program Enrollment**

Lack of residency requirements for graduate nutrition programs allows for greater admissions flexibility. Nutrition programs with rolling admissions accept new students up to a month before the start date of the course. A flexible admission deadline maximizes the number of prospective students capable of enrolling in graduate nutrition programs.

## 4) Student Outcomes

### Employment Opportunities

#### *Graduates of Nutrition Degree Programs Become Nutritionists and Dietitians*

Employers post more available positions for nutritionist and dietician occupations than the following eight most frequent nutrition-related occupations combined. Retail salesperson ranks second; General Nutrition Corporation (GNC) is the employer with the greatest demand for applicants with nutrition-related skills in the Kansas City metropolitan statistical area, which explains the demand for retail salespersons.

#### **Top Detailed Occupations for Job Postings Requiring Nutrition-Related Skills September 2012- August 2013, Kansas City MSA**

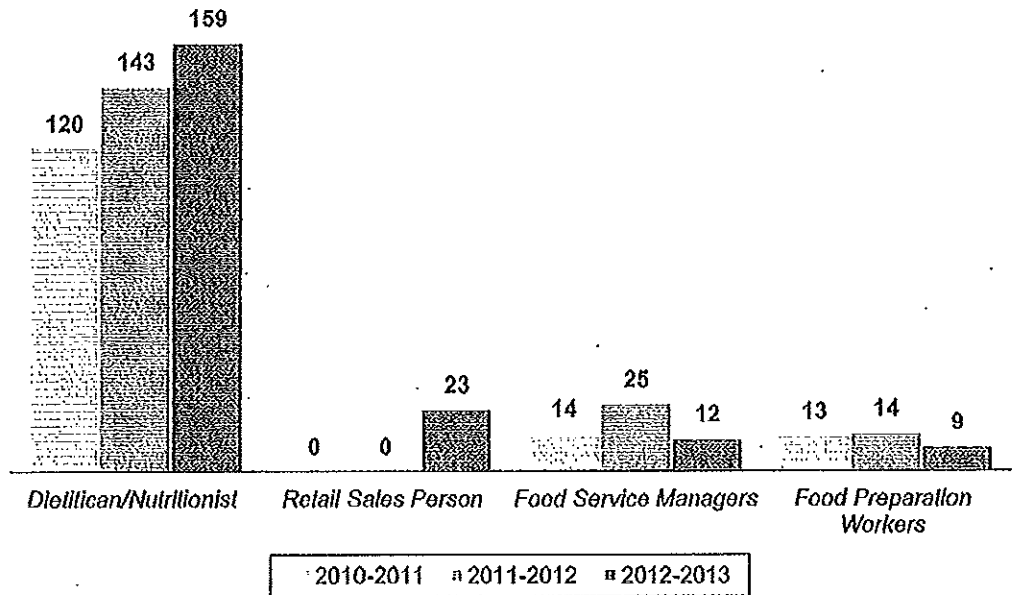
|   |     |
|---|-----|
| <i>Dietitians And Nutritionists</i>                                       | 159 |
| <i>Retail Salespersons</i>  | 23  |
| <i>Food Service Managers</i>  | 12  |
| <i>Food Preparation Workers</i>   | 9   |
| <i>Medical And Health Services Managers</i>                               | 6   |
| <i>First-Line Supervisors Of Food Preparation And Serving Workers</i>     | 5   |
| <i>Installation, Maintenance, And Repair Workers, All Other</i>           | 5   |
| <i>Food Scientists And Technologists</i>                                  | 4   |
| <i>Combined Food Preparation And Serving Workers, Including Fast Food</i> | 4   |

*n=252, 0 unspecified*  
*Source: Burning Glass Labor/Insight™*

The number of employers identifying demand for nutritionists and dieticians is increasing over time. The demand for food service managers and food preparation workers declined between 2010 and 2013 with a temporary increase in 2011. The demand for nutrition retail sales personnel does not appear until 2012 to 2013, indicating the arrival of new GNC stores throughout the Kansas City metropolitan statistical area.

## Trends over Time for Top Occupations in Job Postings Requiring Nutrition-Related Skills

September 2010- September 2013, Kansas City MSA



n=252, 0 unspecified

Source: Burning Glass Labor/Insight™

### Include Dietician Title in Nutrition Degree Program to Broaden Degree and Program Recognition in Nutrition Industry

Registered and clinical dietitians are the two most common job titles in job postings for nutrition-related skills between September 2012 and August 2013. While the Bureau of Labor Statistics classifies nutritionist and dietitians under the same occupation code, employers in the Kansas City metropolitan statistical area specifically seek dietitians, positions which require board certification. Nutritionist positions include dietitian positions but include non-board certified positions as well.

## Top Titles for Job Postings Requiring Nutrition-Related Skills

September 2012- August 2013, Kansas City MSA

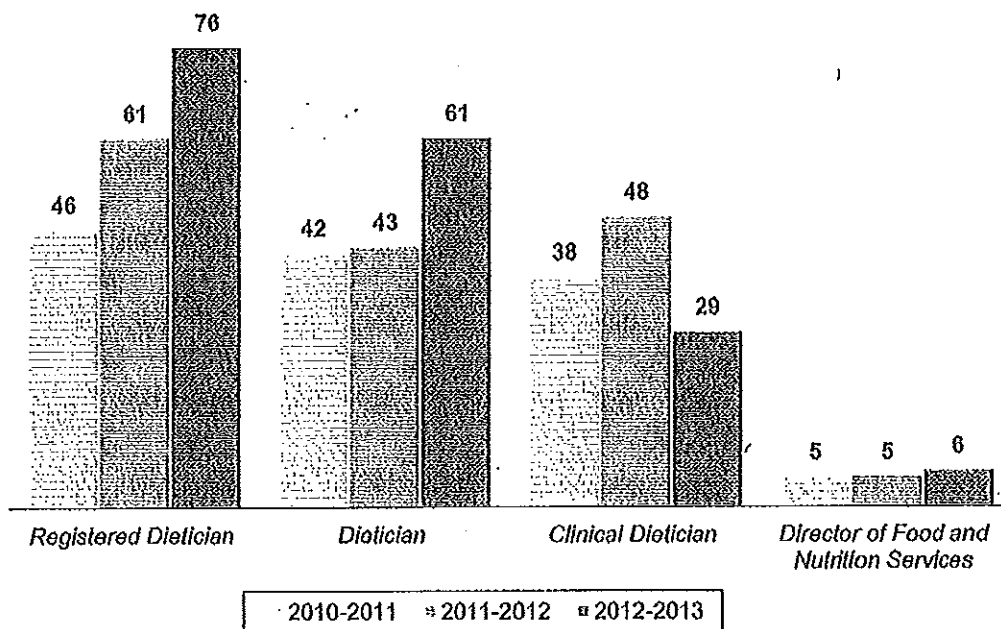
|   |    |
|---|----|
| Registered Dietitian                    | 76 |
| Dietitian                               | 61 |
| Clinical Dietitian                      | 29 |
| Retail Sales Associate                  | 23 |
| Director Of Food And Nutrition Services | 6  |
| Director Nutrition Services             | 5  |
| Nutrition Services Worker               | 4  |
| Nutrition Services Aide                 | 4  |
| Manager Nutrition Services              | 3  |
| Nutrition Services Technician           | 3  |
| Nutrition Services Associate            | 3  |
| Nutritionist                            | 3  |
| Nutrition Assistant                     | 2  |

n=252, 0 unspecified  
Source: Burning Glass Labor/Insight™

The number of job postings for registered dietitians increased by 60 percent in the last three years. The number of job postings for dietitians increased by 69 percent in the last three years. Job postings identifying demand for directors of food and nutrition services have stayed relatively constant, increasing from five to six, in the last three years.

## Trends over Time for Top Titles In Job Postings Requiring Nutrition-Related Skills

September 2010- September 2012, Kansas City MSA



n=252, 0 unspecified  
Source: Burning Glass Labor/Insight™

## Exit Surveys

### Track Employment Outcomes with Alumni Surveys

Program administrators at Central Michigan University deliver an online questionnaire that includes questions on job promotion, salary increases, and changes in position or specialization. Program directors also create focus groups of graduates for more qualitative data on the success of the program. Administrators use both the quantitative information from the online questionnaire and the qualitative information from the focus groups to adjust course work or develop new electives. The program director at Central Michigan University recently developed a new entrepreneurial elective after data indicated that students could benefit from the ability to manage the business operations of private nutrition practices.

## Future Demand

### Changes in Entry-Level Registration Eligibility Requirements Will Increase Demand for Master's Nutrition Degrees

The Commission on Dietetic Registration requires that all nutritionists hold master's degrees by the year 2024. This will increase demand for nutrition master's degrees as undergraduate students will require additional degree certification before entering the workforce and already employed nutrition practitioners will return to earn master's degrees to remain competitive for positions.

## 5) Research Methodology

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### Project Challenge

Leadership at a member institution approached the Forum with the following questions:

- What is the employer demand for employees with master's degrees in nutrition? Which specializations within nutrition experience higher demand? How has employer demand changed since 2010?
- What positions require master's degrees in nutrition?
- What skills do employers seek from employees with master's degrees in nutrition? How have required skills changed since 2010?
- Who develops nutrition programs? What motivates contacts to develop master's-level nutrition programs? What timeline does implementation follow?
- What courses do contacts include in master's-level nutrition programs? Which courses overlap with other degree programs?
- What skills do contacts emphasize in their curricula? Who selects those skills? Why do contacts prioritize those skills?
- How many faculty members do nutrition programs include? What education and experience do faculty positions require?
- What delivery modality do contacts use for their nutrition programs?
- What information technology (IT) resources support hybrid nutrition degrees? How do contacts fund additional IT infrastructure?
- What limitations do contacts experience delivering content online? How do contacts address those limitations?
- How do contacts modify instruction for different program audiences?
- How have student demographics changed in the past five years?
- How long do students require on average to complete nutrition master's degree programs?
- What outcomes do graduates with master's degrees in nutrition experience? How successfully do graduates find employment within the field?
- How long do graduates take before finding gainful employment?

### Project Sources

The Forum consulted the following sources for this report:

- Advisory Board's internal and online research libraries (eab.com)
- The Chronicle of Higher Education (<http://chronicle.com>)
- National Center for Education Statistics (NCES) (<http://nces.ed.gov/>)

## Research Parameters

The Forum interviewed program directors of master's hybrid nutrition programs.

### A Guide to Institutions Profiled in this Brief

| Institution                             | Location  | Approximate Institutional Enrollment (Undergraduate/Total) | Classification  |
|---|-----------|--|---|
| Central Michigan University             | Midwest   | 21,300/27,700  | Doctoral/Research Universities                                |
| Goddard College                         | Northeast | 250/700  | Master's Colleges and Universities (medium programs)          |
| Northwestern Health Sciences University | Midwest   | 110/870  | Special Focus Institutions-- Other health professions schools |
| Tufts University                        | Northeast | 5,200/10,900   | Research Universities (very high research activity)           |

## Burning Glass Labor/Insight™

### Burning Glass – The Education Advisory Board's Partner for Real-Time Labor Market Data

Part of the data included in this report made possible through our partnership with Burning Glass, a Boston-based firm specializing in use of web spidering technology and Artificial Intelligence engines to mine more than 80 million online job postings for real-time employer demand data. Under the partnership, the Education Advisory Board may use certain features of Burning Glass's proprietary tool called Labor/Insight™ to answer common member questions about employer demand for specific educational requirements, job titles, and competencies over time and by geography. A fuller description of the tool is available at <http://www.burning-glass.com/products/labor.html>.

### Learn about Burning Glass and Labor/Insight™

Many Education Advisory Board member institutions subscribe to the Labor/Insight™ tool, to provide program directors and marketers desktop access to the tool's full suite of features. Burning Glass is pleased to provide Labor/Insight™ to our members at a substantial discount. For more information about the service, please contact Kelly Bailey, Business Development Manager, [kbailey@burning-glass.com](mailto:kbailey@burning-glass.com) or 732-800-2484.

### Definition of Terms

The total number of "unspecified" job postings included in a data sample is indicated below all charts and graphs in this report. Job postings are considered "unspecified" for a skill, industry, employer, geography, certification, education requirement, or major when the job posting did not advertise for one of these particular job characteristics and therefore should be subtracted from the total number (n value) of job postings analyzed in the query. Capital cities may be overrepresented in instances where job postings do not specify a location within a state.

# Networking Contacts

---

## Central Michigan University

Roschelle Heuberger  
*Nutrition Program Director*  
989-774-2613  
[heube1ra@cmlch.edu](mailto:heube1ra@cmlch.edu)

## Goddard College

Ruth Farmer  
*Nutrition Program Director*  
802-322-1657  
[Ruth.Farmer@goddard.edu](mailto:Ruth.Farmer@goddard.edu)

## Northwestern Health Sciences University

Noel Aldrich  
*Former Standard Process Chair of Clinical Nutrition*  
[nsaldrich@yahoo.com](mailto:nsaldrich@yahoo.com)

## Tufts University

Mark Krumm  
*Director of Communications*  
617-636-3718  
[Mark.Krumm@tufts.edu](mailto:Mark.Krumm@tufts.edu)





**PROGRAM STRUCTURE**

A. Total credits required for graduation: Thesis: 30; Non-Thesis: 33

B. Residency requirements, if any: N/A

C. General education: Total credits: N/A

Courses (specific courses OR distribution area and credits):

**Sports Nutrition Thesis Option**

|                                    |   |           |
|------------------------------------|---|-----------|
| <b>Required Graduate Courses</b>   |   | <b>18</b> |
| NUTR 5001                          | Nutrition Across the Lifespan           | 3         |
| NUTR 5005                          | Macro Nutrients                         | 3         |
| NUTR 5006                          | Micro Nutrients                         | 3         |
| D&N 4346                           | Dietary Supplements                     | 3         |
| PE 5830                            | Advanced Exercise Physiology            | 3         |
| PE 5930                            | Exercise Metabolism                     | 3         |
| <b>Research</b>                    |   | <b>12</b> |
| PE 6990                            | Thesis                                  | 6         |
| PE 5900                            | Introduction to Research in Kinesiology | 3         |
| PE 5210                            | Statistics in Kinesiology               | 3         |
| <b>Minimum Graduate Hour Total</b> |   | <b>30</b> |

**-Sport Nutrition- Non-Thesis Option**

|                                  |   |           |
|----------------------------------|---|-----------|
| <b>Required Graduate Courses</b> |   | <b>18</b> |
| NUTR 5001                        | Nutrition Across the Lifespan           | 3         |
| NUTR 5005                        | Macro Nutrients                         | 3         |
| NUTR 5006                        | Micro Nutrients                         | 3         |
| D&N 4346                         | Dietary Supplements                     | 3         |
| PE 5830                          | Advanced Exercise Physiology            | 3         |
| PE 5930                          | Exercise Metabolism                     | 3         |
| <b>Research</b>                  |   | <b>6</b>  |
| NUTR 6000                        | Seminar in Nutrition                    | 3         |
| PE 5900                          | Introduction to Research in Kinesiology | 3         |
| <b>OR</b>                        |   |           |
| PE 5210                          | Statistics in Kinesiology               | 3         |

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|                                    |   |           |
|------------------------------------|---|-----------|
| <b>Select from the following</b>   |   | <b>9</b>  |
| HED 4300                           | Nutrition and Human Performance           | 3         |
| PE 5890                            | Laboratory Procedures in Exercise Science | 3         |
| PE 5940                            | Body Composition                          | 3         |
| NUTR 5002                          | Advanced Medical Nutrition I              | 3         |
| NUTR 5003                          | Advanced Medical Nutrition II             | 3         |
| NUTR 5004                          | Advanced Community Nutrition              | 3         |
| NUTR 5007                          | Pediatric Nutrition                       | 3         |
| NUTR 5008                          | Geriatric Nutrition                       | 3         |
| <b>Minimum Graduate Hour Total</b> |   | <b>33</b> |

#### Clinical Nutrition- Thesis Option

|   |   |           |
|---|---|-----------|
| <b>Required Graduate Courses</b>  |   | <b>9</b>  |
| NUTR 5001   | Nutrition Across the Lifespan             | 3         |
| NUTR 5005   | Macro Nutrients                           | 3         |
| NUTR 5006   | Micro Nutrients                           | 3         |
| <b>Research</b>   |   | <b>12</b> |
| PE 6990   | Thesis                                    | 6         |
| PE 5900   | Introduction to Research in Kinesiology   | 3         |
| PE 5210   | Statistics in Kinesiology                 | 3         |
| <b>Select from the following (6 Hours must be from NUTR or D&amp;N)</b> |   | <b>9</b>  |
| HED 4300  | Nutrition and Human Performance           | 3         |
| PE 5830   | Advanced Exercise Physiology              | 3         |
| PE 5890   | Laboratory Procedures in Exercise Science | 3         |
| PE 5930   | Exercise Metabolism                       | 3         |
| PE 5940   | Body Composition                          | 3         |
| D&N 4346  | Dietary Supplements                       | 3         |
| NUTR 5002   | Advanced Medical Nutrition I              | 3         |
| NUTR 5003   | Advanced Medical Nutrition II             | 3         |
| NUTR 5004   | Advanced Community Nutrition              | 3         |
| NUTR 5007   | Pediatric Nutrition                       | 3         |
| NUTR 5008   | Geriatric Nutrition                       | 3         |
| <b>Minimum Graduate Hour Total</b>                                      |   | <b>30</b> |

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D. Major requirements: Total credits: 9-18

**Sports Nutrition Option 18 hrs**

NUTR 5001 Nutrition Across the Lifespan 3

NUTR 5005 Macro Nutrients 3

NUTR 5006 Micro Nutrients 3

D&N 4346 Dietary Supplements 3

PE 5830 Advanced Exercise Physiology 3

PE 5930 Exercise Metabolism 3

**Clinical Nutrition Option 9**

NUTR 5001 Nutrition Across the Lifespan 3

NUTR 5005 Macro Nutrients 3

NUTR 5006 Micro Nutrients 3

B. Free elective credits:

9-18

(Sum of C, D, and E should equal A.)

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

Thesis, PE 6990 6 hrs.

Non Thesis: NUTR 6000: Seminar in Nutrition 3 hours

G. Any unique features such as interdepartmental cooperation:

N/A

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Form PS – Program Structure



## PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS

---

Institution Name      University of Central Missouri  
Program Name          Master of Science in Nutrition  
Date    Sep 25th 2015

(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.  
Selection into the program will be based on GPA a minimum GPA of 3.0, GRE scores, and consistency between statement of purpose and program goals. Preference will be given to candidates scoring a minimum of 153 on verbal reasoning (59th percentile), a score of 155 in quantitative reasoning (60th percentile), and a score of 4.0 on analytical writing.
- Characteristics of a specific population to be served, if applicable.  
Primarily the population served is individuals who have completed a bachelors degree in Dietetics and/or Exercise Science, although students completing other majors with nutrition coursework may also be considered.

### 2. Faculty Characteristics

- Any special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate.  
PhD in Nutrition and/or Exercise Science or related degree is required, with appropriate training and experience in sports nutrition or clinical nutrition.
- 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.  
We estimate that full time faculty will teach 100% of the required coursework.
- Expectations for professional activities, special student contact, teaching/learning innovation.

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New faculty will be able to share professional experience relevant to each course. Many of the courses will be taught in online or hybrid formats, and will use evidence-based methods for student learning.

### 3. Enrollment Projections

- Student FTE majoring in program by the end of five years.  
The approximate enrollment is 35 based on admitting 15 students per year
- Percent of full time and part time enrollment by the end of five years.  
100% full time (6 hours or more per semester)

### 4. Student and Program Outcomes

- Number of graduates per annum at three and five years after implementation.  
-Number of students graduating at 3 years after implementation of program - 25  
-Number of students graduating at 5 years after implementation of program - 35
- Special skills specific to the program.  
The new online Master of Science in Nutrition supports the acquisition, utilization, and application of nutrition principles in clinical situations and in Sports Nutrition. The proposed coursework is designed to assist the student in gaining proficiency in counseling clients/patients in alternative and complementary nutritional therapies. Master of Science in Nutrition is designed for professionals in nutrition and other careers with a science background. In addition, the program provides an opportunity for medical, chiropractic, and other healthcare providers to expand their practice through knowledge gained from graduate studies in nutrition. The degree program will also develop critical thinking skills, leadership, and professionalism.
- Proportion of students who will achieve licensing, certification, or registration.  
This degree will not result in licensing, certification, or registration.
- 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.  
The Master of Science in Nutrition program will implement an assessment process that includes formative and summative instruments in preparation for ACEND accreditation. These assessments of student performance will be performed at the midpoint and end of

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the program, and the results will be reviewed by faculty on an annual basis to determine changes needed in the curriculum.

- Placement rates in related fields, in other fields, unemployed.  
According to the United States Department of Labor and Bureau of Statistics, employment of dietitians and nutritionists is projected to grow 21 percent from 2012 (67,400 jobs) to 2022 (81,600 jobs).
- Transfer rates, continuous study.  
Students may transfer credits from other programs of study that have an articulation agreement with the University of Central Missouri. It is expected that some attrition would occur, however it would not be expected to exceed 20% of the total declared majors

#### 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.**  
The Accreditation Council for Education in Nutrition and Dietetics (ACEND) <http://www.eatrightacend.org/ACEND/> serve as the accrediting body. The projected timeline includes conducting a program self-study after 4 years, submitting the self-study and initiating appropriate ACEND accreditation protocols during year 5, and gaining status as a fully accredited program by year 6.

#### 6. Alumni and Employer Survey

- Expected satisfaction rates for alumni, *including timing and method of surveys.*  
Historically, within other programs within our department our alumni satisfaction rates are consistently at or near 95%. These data will be collected specifically for the proposed program the end of the program course sequence.
- Expected satisfaction rates for employers, including timing and method of surveys.  
Employer surveys will be conducted at 1 and 3 years to determine employer satisfaction with graduates. It is expected that employers will report being satisfied or extremely satisfied with employees from UCM's Nutrition program. These surveys will help identify strengths and weaknesses of the program, leading to possible modifications to the program.

#### 7. Institutional Characteristics

- Characteristics demonstrating why your institution is particularly well-equipped to support the program.  
The University of Central Missouri experience transforms students into lifelong learners, dedicated to service, with the knowledge, skills and confidence to succeed and lead in the

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region, state, nation and world. UCM offers a comprehensive array of bachelor's programs and selected Master's and Doctoral programs building upon historical strengths and statewide mission. We currently offer an undergraduate degree program in Dietetics and Nutrition with a 50 year history, accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND). The Didactic Program in Dietetics at UCM prepares students to academically meet the university's Bachelor of Science degree criteria, while meeting the foundational knowledge and skills necessary to enter a dietetic internship as established by the Academy of Nutrition and Dietetics. The university is dedicated to providing quality education to prepare students to be life-long learners. The new Master of Science in Nutrition program is committed to provide quality education to students to be life-long learners and successfully complete a dietetic internship to be entry-level dietitians. We plan to offer an accelerated degree program that students can complete in four semesters or one calendar year. Highly-qualified faculty members in Exercise Science and Nutrition will be responsible for delivery of the curriculum. Academic and Professional advising will provide direction needed for students to pursue their professional goals. Our advisory board for the undergraduate Dietetics and Nutrition program will expand its scope to include MS in Nutrition.

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## Program Accreditation

The Accreditation Council for Education in Nutrition and Dietetics (ACEND) <http://www.eatrightacend.org/ACEND/> serve as the accrediting body. The projected timeline includes conducting a program self-study after 4 years, submitting the self-study and initiating appropriate ACEND accreditation protocols during year 5, and gaining status as a fully accredited program by year 6



## Institutional Characteristics

The University of Central Missouri experience transforms students into lifelong learners, dedicated to service, with the knowledge, skills and confidence to succeed and lead in the region, state, nation and world. UCM offers a comprehensive array of bachelor's programs and selected Master's and Doctoral programs building upon historical strengths and statewide mission. We currently offer an undergraduate degree program in Dietetics and Nutrition with a 50 year history, accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND). The Didactic Program in Dietetics at UCM prepares students to academically meet the university's Bachelor of Science degree criteria, while meeting the foundational knowledge and skills necessary to enter a dietetic internship as established by the Academy of Nutrition and Dietetics. The university is dedicated to providing quality education to prepare students to be life-long learners. The new Master of Science in Nutrition program is committed to provide quality education to students to be life-long learners and successfully complete a dietetic internship to be entry-level dietitians. We plan to offer an accelerated degree program that students can complete in four semesters or one calendar year. Highly-qualified faculty members in Exercise Science and Nutrition will be responsible for delivery of the curriculum. Academic and Professional advising will provide direction needed for students to pursue their professional goals. Our advisory board for the undergraduate Dietetics and Nutrition program will expand its scope to include MS in Nutrition.

# New Program Details

Name: Ken Bias

Phone: 660-543-4547

Email: bias@ucmo.edu

Point Of Contact: Ken Bias

Department: Nutrition & Kinesiology

College: Health, Science and Technology

Program title: MS in Nutrition

Level : Grad

Relationship to mission: Yes

Degree(s) under which program MS  
will be offered:

List new courses involved in Yes  
program:

## Resources

Is another program being No  
deleted or altered?

If this program affects other NA  
departments or colleges, has a  
memo showing how it will  
affect them been attached to the  
proposal guide

What justification is being Yes  
provided to support this  
proposal?

What are the present/future 15 - 25  
projected enrollments for this  
program?

If this is a new program, sections: 3 students:25  
indicate the number of sections  
and students in each section  
you can presently staff:

Which of the following would Additional library holdings : No  
be needed to implement the Additional technology or other supplies :No  
proposed program? Additional or remodeled facilities : No  
Additional travel funds : No  
Additional faculty : Yes.

Additional support staff : No  
 Other additional expenses : No

Have the individuals responsible for allocation of these resources been contacted to ensure the availability of these resources by the time the program is implemented? **Yes**

If additional faculty are not required, indicate how faculty will be made available? List the names of current faculty qualified to teach this program. **See attached Document for staffing concerns.**

**Documents Attached**

| File Name                                      | Description |
|--|-------------|
| <a href="#">Staffing Letter (1).pdf</a>        |             |
| <a href="#">MS Nutrition proposal.docx</a>     |             |
| <a href="#">Program Justification (1).docx</a> |             |

**Current Approval Status: Michael Godard (Dept. Chair(Nutrition/Kin))**  
Approved 03/03/15

**Alice Greife (Dean(CHST))**  
Approved 03/13/15

**Deborah Curtis (Provost())**  
Approved 03/13/15

**Kenneth Bias (College Curriculum Chair(CHST))**  
Approved 04/06/15

**Tina Church (Graduate Council(Chair))**  
Approved 04/17/15  
 GC Approved 4/16/15 tmc

**James Orr (University Curriculum Committee Chair())**  
Approved 05/14/15

**Deborah Curtis (Provost())**  
**Approved 05/15/15**

**Donna Mayeux (Board of Governors())**  
**Approved 08/21/15**

Approved by BOG on August 20, 2015. Paperwork forwarded to MDHE August 21, 2015. Scheduled for CBHE December 2015 meeting.

**Donna Mayeux (CBHE/MDHE())**  
**Pending**

Approval:

Chair comments:

## Program Justification

### *Key Observations*

By 2024, the Academy of Nutrition and Dietetics will require registered dietitians to hold at least a Master's degree. The Commission on Dietetic Registration (CDR), the credentialing agency for the Academy of Nutrition and Dietetics, recently announced a change in their eligibility requirements to include the completion of a Master's degree in a nutrition-related field. The new Master of Science in Nutrition provides professionals in nutrition and other closely related professional careers an advanced degree with a strong scientific knowledge base focused on gaining proficiency in counseling techniques and the application of nutrition principles in clinical settings. The program also prepares students to apply nutrition knowledge when analyzing human performance and exercise metabolism. The Master of Science in Nutrition provides students with two options, a Clinical Nutrition option and a Sport Nutrition option. Both options address the change in the CDR's entry-level eligibility requirements for dietitians and expands their practice through knowledge gained from this advanced degree.

### *Job Outlook Enrollment and Application Trends*

According to the United States Department of Labor and Bureau of Statistics, employment of dietitians and nutritionists is projected to grow 21 percent from 2012 (67,400 jobs) to 2022 (81,600 jobs) (<http://www.bls.gov/ooh/Healthcare/Dietitians-and-nutritionists.htm> visited Jan 12th 2015).

The number of dietitian job postings in the Kansas City area has grown 60 percent from 2010-2013. Overall, there were 252 job postings in Kansas city, from 2010-2013. All of these job postings require a bachelor's degree. The top health care facilities most likely to employ dietitians or nutrition program graduates are; GNC, St.Lukes Health System, Truman medical center. Dietetics, Nutrition services, Medical nutrition therapy and metabolism are the top specialized skills a nutrition graduate would require in acquiring the nutrition related jobs. Among these job postings, Dietitian and nutritionists, retail sales person and Food Service managers are the three occupations in greatest demand. The arrival of new GNC store in Kansas city area has increased the demand for the nutrition retail sales persons.

**Future Demand:** The new eligibility requirements for the registered dietitian nutritionists increase the demand for the Master of Science in Nutrition, as undergraduate students will need the advanced degree before practicing as entry-level dietitians. Current dietetics practitioners will need to return to graduate school to earn an advanced degree in nutrition to remain competitive in their current positions. In addition, the Master of Science in Nutrition provides great potential to draw students from a variety of professions in the KC Metro Area to the program housed at the UCM Lee's Summit Center. The breadth of potential students for the Master of Science in Nutrition includes not only dietitians, but also area health care providers, physical education teachers, sport coaches, personal trainers, athletic trainers, corporate fitness professionals, and more.

This new Master of Science in Nutrition is an excellent fit for the UCM Lee's Summit Center, meeting unmet academic demands in the KC Metro Area in a very timely manner. In addition, alternative program delivery methods--such as an online format--could be attractive to a wide demographic cross-section of prospective students as well as be lucrative to UCM. Both the Clinical Nutrition option and the Sports Nutrition option of the Master of Science in Nutrition will create a broad array of potential students

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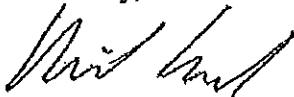
LEARNING TO A GREATER DEGREE

Department of Nutrition & Kinesiology  
Horrow 125  
Warrensburg MO 64093  
Office 660-543-4256  
FAX 660-543-8847  
ucmo.edu/nk

March 2, 2015

The proposed new Masters of Science degree program in Nutrition will necessitate a new tenure track faculty position in Nutrition to cover the staffing needs for the new courses being created for this major. In addition to this new tenure track faculty position, adjuncts will be hired to teach some undergraduate courses in the dietetics degree program that will then free up current faculty to teach additional courses in the new Masters degree program in Nutrition. The combination of these efforts will cover all of the staffing needs for this new program.

Sincerely,



Mike Godard  
Professor and Chair  
Department of Nutrition and Kinesiology

**University of Central Missouri  
Department of Nutrition and Kinesiology  
MS in Nutrition**

**Housed at UCM - Lee's Summit Center**

**Admission GPA 3.0**

**GPA of 2.75-3.00: Conditionally Admit**

**GRE Score: Preferred: Verbal Reasoning 153 (59<sup>th</sup> percentile),  
Quantitative reasoning 155 (60<sup>th</sup> percentile) and analytical writing score of  
4.0 on a scale of 0-6**

The scores must not be more than five years old from July 1 of the application year. Educational Testing Service to send an official copy of the scores to The Graduate School.

**TOEFL for international Students: Same as UCM admission requirements**



**Master of Science in Nutrition**  
**-Sport Nutrition- Thesis Option**

|                                    |   |           |
|------------------------------------|---|-----------|
| <b>Required Graduate Courses</b>   |   | <b>18</b> |
| NUTR 5001                          | Nutrition Across the Lifespan           | 3         |
| NUTR 5005                          | Macro Nutrients                         | 3         |
| NUTR 5006                          | Micro Nutrients                         | 3         |
| D&N 4346                           | Dietary Supplements                     | 3         |
| PE 5830                            | Advanced Exercise Physiology            | 3         |
| PE 5930                            | Exercise Metabolism                     | 3         |
| <b>Research</b>                    |   | <b>12</b> |
| PE 6990                            | Thesis                                  | 6         |
| PE 5900                            | Introduction to Research in Kinesiology | 3         |
| PE 5210                            | Statistics in Kinesiology               | 3         |
| <b>Minimum Graduate Hour Total</b> |   | <b>30</b> |

**-Sport Nutrition- Non-Thesis Option**

|                                    |   |           |
|------------------------------------|---|-----------|
| <b>Required Graduate Courses</b>   |   | <b>18</b> |
| NUTR 5001                          | Nutrition Across the Lifespan             | 3         |
| NUTR 5005                          | Macro Nutrients                           | 3         |
| NUTR 5006                          | Micro Nutrients                           | 3         |
| D&N 4346                           | Dietary Supplements                       | 3         |
| PE 5830                            | Advanced Exercise Physiology              | 3         |
| PE 5930                            | Exercise Metabolism                       | 3         |
| <b>Research</b>                    |   | <b>6</b>  |
| NUTR 6000                          | Seminar in Nutrition                      | 3         |
| PE 5900                            | Introduction to Research in Kinesiology   | 3         |
| <b>OR</b>                          |   |           |
| PE 5210                            | Statistics in Kinesiology                 | 3         |
| <b>Elect from the following</b>    |   | <b>9</b>  |
| HED 4300                           | Nutrition and Human Performance           | 3         |
| PE 5890                            | Laboratory Procedures in Exercise Science | 3         |
| PE 5940                            | Body Composition                          | 3         |
| NUTR 5002                          | Advanced Medical Nutrition I              | 3         |
| NUTR 5003                          | Advanced Medical Nutrition II             | 3         |
| NUTR 5004                          | Advanced Community Nutrition              | 3         |
| NUTR 5007                          | Pediatric Nutrition                       | 3         |
| NUTR 5008                          | Geriatric Nutrition                       | 3         |
| <b>Minimum Graduate Hour Total</b> |   | <b>33</b> |

**Clinical Nutrition- Thesis Option**

|  |   |           |
|--|---|-----------|
| <b>Required Graduate Courses</b>                                       |   | <b>9</b>  |
| NUTR 5001  | Nutrition Across the Lifespan             | 3         |
| NUTR 5005  | Macro Nutrients                           | 3         |
| NUTR 5006  | Micro Nutrients                           | 3         |
| <b>Research</b>  |   | <b>12</b> |
| PE 6990  | Thesis                                    | 6         |
| PE 5900  | Introduction to Research in Kinesiology   | 3         |
| PE 5210  | Statistics in Kinesiology                 | 3         |
| <b>Elect from the following (6 Hours must be from NUTR or D&amp;N)</b> |   | <b>9</b>  |
| HED 4300   | Nutrition and Human Performance           | 3         |
| PE 5830  | Advanced Exercise Physiology              | 3         |
| PE 5890  | Laboratory Procedures in Exercise Science | 3         |
| PE 5930  | Exercise Metabolism                       | 3         |
| PE 5940  | Body Composition                          | 3         |
| D&N 4346   | Dietary Supplements                       | 3         |
| NUTR 5002  | Advanced Medical Nutrition I              | 3         |
| NUTR 5003  | Advanced Medical Nutrition II             | 3         |
| NUTR 5004  | Advanced Community Nutrition              | 3         |
| NUTR 5007  | Pediatric Nutrition                       | 3         |
| NUTR 5008  | Geriatric Nutrition                       | 3         |
| <b>Minimum Graduate Hour Total</b>                                     |   | <b>30</b> |

**Clinical Nutrition -- Non-Thesis Option**

|   |   |           |
|---|---|-----------|
| <b>Required Graduate Courses</b>  |   | <b>9</b>  |
| NUTR 5001   | Nutrition Across the Lifespan             | 3         |
| NUTR 5005   | Macro Nutrients                           | 3         |
| NUTR 5006   | Micro Nutrients                           | 3         |
| <b>Research</b>   |   | <b>6</b>  |
| NUTR 6000   | Seminar in Nutrition                      | 3         |
| PE 5900   | Introduction to Research in Kinesiology   | 3         |
| <b>OR</b>   |   |           |
| PE 5210   | Statistics in Kinesiology                 | 3         |
| <b>Select from the following (6 Hours must be from NUTR or D&amp;N)</b> |   | <b>18</b> |
| HED 4300  | Nutrition and Human Performance           | 3         |
| PE 5830   | Advanced Exercise Physiology              | 3         |
| PE 5890   | Laboratory Procedures in Exercise Science | 3         |
| PE 5930   | Exercise Metabolism                       | 3         |
| PE 5940   | Body Composition                          | 3         |
| D&N 4346  | Dietary Supplements                       | 3         |
| NUTR 5002   | Advanced Medical Nutrition I              | 3         |
| NUTR 5003   | Advanced Medical Nutrition II             | 3         |
| NUTR 5004   | Advanced Community Nutrition              | 3         |
| NUTR 5007   | Pediatric Nutrition                       | 3         |
| NUTR 5008   | Geriatric Nutrition                       | 3         |
| <b>Minimum Graduate Hour Total</b>                                      |   | <b>33</b> |