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| For Academic Affairs and Research Use Only | |
| Proposal Number |  |
| CIP Code: |  |
| Degree Code: |  |

**NEW OR MODIFIED COURSE PROPOSAL FORM**

**[ ] Undergraduate Curriculum Council**

**[X] Graduate Council**

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| **[X]New Course, [ ]Experimental Course (1-time offering), or [ ]Modified Course (Check one box)** |

Signed paper copies of proposals submitted for consideration are no longer required. Please type approver name and enter date of approval.

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| JoAnna Cupp 1/8/2021 **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| JoAnna Cupp 1/8/2021 **Department Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Head of Unit (if applicable)** |
| Shanon Brantley 02/02/2021  **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| Mary Elizabeth Spence 1/14/2021 **Office of Assessment (new courses only)** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Graduate Curriculum Committee Chair** |
| \_Susan Hanrahan 2/1/21\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **College Dean** | \_\_\_\_\_\_\_Alan utter\_\_\_\_\_\_ 2/26/21  **Vice Chancellor for Academic Affairs** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **General Education Committee Chair (if applicable)** |  |

1. **Contact Person (Name, Email Address, Phone Number)**

JoAnna Cupp, jcupp@astate.edu, 870-680-8295

1. **Proposed starting term and Bulletin year for new course or modification to take effect**

Summer I 2023; bulletin year fall 2022

**Instructions:**

*Please complete all sections unless otherwise noted. For course modifications, sections with a “Modification requested?” prompt need not be completed if the answer is “No.”*

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|  | **Current (Course Modifications Only)** | **Proposed (New or Modified)**  *(Indicate “N/A” if no modification)* |
| **Prefix** |  | **NS** |
| **Number\*** |  | **6233** |
| **Title** |  | **Nutrition and Cancer** |
| **Description\*\*** |  | **Focuses on the critical role of nutrition in cancer prevention, complications, treatment and recovery. Includes universal characteristics of cancer as well as an in-depth discussion of medical nutrition therapy for three high-risk disease types.** |

***\**** (Confirm with the Registrar’s Office that number chosen has not been used before and is available for use. For variable credit courses, indicate variable range. *Proposed number for experimental course is 9*. )

\*\*Forty words or fewer as it should appear in the Bulletin.

1. **Proposed prerequisites and major restrictions** **[Modification requested? Yes/No]**

(Indicate all prerequisites. If this course is restricted to a specific major, which major. If a student does not have the prerequisites or does not have the appropriate major, the student will not be allowed to register).

1. **Yes** Are there any prerequisites?
   1. If yes, which ones?

Admission to the Graduate School

No course prerequisites for NS 6233

* 1. Why or why not?

The tMSND program can be done on a part-time or full-time basis and is a non-accredited degree. Students outside the Nutrition and Dietetics major may enroll in the course.

1. **No** Is this course restricted to a specific major?
   1. If yes, which major?
2. **Proposed course frequency [Modification requested? Yes/No]**

(e.g. Fall, Spring, Summer; if irregularly offered, please indicate, “irregular.”) *Not applicable to Graduate courses.*

N/A

1. **Proposed course type [Modification requested? Yes/No]**

Will this course be lecture only, lab only, lecture and lab, activity (e.g., physical education), dissertation/thesis, capstone, independent study, internship/practicum, seminar, special topics, or studio? Please choose one.

Lecture only

1. **Proposed grade type [Modification requested? Yes/No]**

What is the grade type (i.e. standard letter, credit/no credit, pass/fail, no grade, developmental, or other [please elaborate])

Standard letter

1. **No** Is this course dual-listed (undergraduate/graduate)?
2. **No** Is this course cross-listed?

*(If it is, all course entries must be identical including course descriptions. Submit appropriate documentation for requested changes. It is important to check the course description of an existing course when adding a new cross-listed course.)*

**a.** – If yes, please list the prefix and course number of the cross-listed course.

Enter text...

**b.** – **Yes / No** Can the cross-listed course be used to satisfy the prerequisite or degree requirements this course satisfies?

Enter text...

1. **Yes** Is this course in support of a new program?

a. If yes, what program?

transitional Master of Science in Nutrition and Dietetics program

1. **No** Will this course be a one-to-one equivalent to a deleted course or previous version of this course (please check with the Registrar if unsure)?

a. If yes, which course?

Enter text...

**Course Details**

1. **Proposed outline** **[Modification requested? Yes/No]**

(The course outline should be topical by weeks and should be sufficient in detail to allow for judgment of the content of the course.)

I. Nutrition and cancer

Week 1 Introduction/overview

Epidemiology

Nutrition and cancer etiology

Screening

Carcinogenesis

Cancer staging/medical diagnosis

Universal signs and symptoms

Treatment

Cost of cancer care

II. Nutrition and cancer prevention

Week 2 Recommendations

American Cancer Society (ACS)

American Institute for Cancer Research (AICR)

World Cancer Research Fund (WCRF)

Guidelines, related mechanisms and key points

Body fatness

Physical activity

Low energy-dense foods

Plant-based diets

Week 3 Guidelines, related mechanisms and key points (continued)

Red and processed meats

Alcoholic drinks

Foods processed with salt or sodium

Dietary supplements

Breastfeeding

Week 4 Cancer survivors

Continuous Update Project (CUP)

Emerging topicsfor cancer prevention and survival

Diets

Functional foods

Dietary supplements

Week 5 Nutrigenomics and cancer

Nutritional genomics

Carcinogenesis

Genetic variation and cancer risk

Inherited cancer syndromes

Epigenetics and cancer

Diet/nutrition recommendations for cancer prevention and survivorship

Current limitations and future research needs

III. The adult oncology patient

Week 6 Screening and assessment

Importance

Effects of malnutrition

Screening tools

Nutrition assessment

Identifying malnutrition

Nutritional needs

Metabolic changes associated with cancer

Dietary Reference Intakes (DRIs)

Macronutrient needs

Micronutrient needs and effect of inflammatory status

Estimating energy needs

Week 7 Energy balance, exercise and cancer

Importance of energetics

Obesity and cancer risk

Physiological impact of body weight

Weight and cancer outcomes

Weight during treatment and post-treatment

Calorie restriction and cancer prevention

Exercise and cancer survivors

Exercise during cancer treatment

Effects of post-treatment exercise on cancer outcomes

Promoting physical activity

Week 8 Nutritional effects of cancer therapies

Chemotherapy

Biotherapy

Hormone therapy

Radiation therapy

Week 9 Symptom management of cancer therapies

Anorexia/poor appetite/early satiety

Constipation/diarrhea

Dysphagia

Oral candidiasis

Fatigue

Malabsorption

Mucositis/esophagitis

Taste and smell changes

Xerostomia/thick saliva

IV. Medical nutrition therapy for specific cancer types

Week 10 Nutrition support in the oncology setting

Enteral nutrition

Parenteral nutrition

Nutrition support at home

Week 11 Medical nutrition therapy for esophageal cancer

Prevalence and risk factors

Symptoms and staging

Treatments

Anti-dumping diet

Estimated nutrient requirements

Screening and assessment

Enteral nutrition

Week 12 Medical nutrition therapy for head and neck cancer

Statistics, symptoms and risk factors

Location of head and neck cancers

Treatment

Single modality

Combined modality therapy (chemoradiation – CRT)

Nutritional phases of CRT

Nutritional challenges and goals

Week 13 Medical nutrition therapy for lung cancer

Background

Types of lung cancer

Diagnosis and staging

Treatments

Nutritional needs

Screening, assessment and medical nutrition therapy

Week 14 Nutrition management of oncology patient in palliative and hospice settings

Introduction and philosophies

Nutrition symptoms and quality of life

Screening and assessment for specialized care

Artificial nutrition and hydration

Nutrition support guidelines for advanced cancer patients

Week 15 Model Oncology Nutrition Program Presentations

1. **Proposed special features** **[Modification requested? Yes/No]**

(e.g. labs, exhibits, site visitations, etc.)

None

1. **Department staffing and classroom/lab resources**

Department staffing is adequate to cover this course. NS 6233 is an online class; no classroom or lab space is required.

1. Will this require additional faculty, supplies, etc.?

See note on faculty above.

1. **No** Does this course require course fees? 3 *If yes: please attach the New Program Tuition and Fees form, which is available from the UCC website.*

**Justification**

**Modification Justification (Course Modifications Only)**

1. Justification for Modification(s)

Enter text...

**New Course Justification (New Courses Only)**

1. Justification for course. Must include:

a. Academic rationale and goals for the course (skills or level of knowledge students can be expected to attain)

With cancer being identified as the second most common cause of death, it is important that nutrition professionals be competent in caring for oncology patients. On the undergraduate level, students receive basic education and experiences with this topic. A graduate course dealing with the topic will support and extend their preparation to increase both confidence and competence in oncology nutrition. Medical management of cancer may lead to significant nutrition symptoms which cause weight loss and malnutrition. Nutrition interventions during and after cancer treatments can improve nutritional status, influencing treatment tolerance, quality of life, prognosis and mortality. Registered dietitian nutritionists (RDNs) are uniquely qualified to provide such interventions with medical nutrition therapy. Course goals - upon completion of this course, students are able to: examine the significant role of nutrition in cancer prevention and survivorship; identify nutrition needs, assessment methods and symptom management of the adult oncology patient; highlight medical nutrition therapy for specific cancers and interventions for nutrition support/palliative care.

b. How does the course fit with the mission of the department? If course is mandated by an accrediting or certifying agency, include the directive.

The course fits with the department mission to provide quality education and experiences for students in the field of nutrition and dietetics. On the undergraduate level, students receive basic education and experiences with this topic. A graduate course will support and extend their preparation to increase both confidence and competence in oncology nutrition.

c. Student population served.

NS 6233 serves students who may already be RDNs or working in health care and are now pursuing a graduate degree.

d. Rationale for the level of the course (lower, upper, or graduate).

The graduate level of the course is appropriate as students must have a baccalaureate degree in order to enroll in the transitional Nutrition and Dietetics program as they seek an advanced educational experience.

**Assessment**

**Assessment Plan Modifications (Course Modifications Only)**

1. Do the proposed modifications result in a change to the assessment plan?

*If yes, please complete the Assessment section of the proposal*

**Relationship with Current Program-Level Assessment Process (Course modifications skip this section unless the answer to #18 is “Yes”)**

1. What is/are the intended program-level learning outcome/s for students enrolled in this course? Where will this course fit into an already existing program assessment process?

Program-Level Learning Outcome

Domain 1 – Scientific and Evidence Base of Practice: Integrate scientific information and translation of research into practice, specifically CRDN\* 1.2, 1.6

Domain 2 - Professional Practice Expectations: Exhibit beliefs, values, attitudes and behaviors for the professional dietitian nutritionist level of practice, specifically CRDN\* 2.2, 2.4

Domain 3 – Clinical and Customer Services: Develop and deliver information, products and services to individuals, groups and populations, specifically CRDN\* 3.1

(\*KRDN Knowledge for the Registered Dietitian Nutritionist; \*CRDN Competency for the Registered Dietitian Nutritionist)

There is a new curriculum map applicable to the transitional Master of Science in Nutrition and Dietetics degree (tMSND) as it is a non-accredited degree and is not tied to the undergraduate Dietetics Program leading to the MSND. The assessment plan is modeled after the existing program assessment process for the Bachelor of Science in Dietetics and the Master of Science in Nutrition and Dietetics degrees.

1. Considering the indicated program-level learning outcome/s (from question #19), please fill out the following table to show how and where this course fits into the program’s continuous improvement assessment process.

*For further assistance, please see the ‘Expanded Instructions’ document available on the UCC - Forms website for guidance, or contact the Office of Assessment at 870-972-2989.*

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| **Program-Level Outcome 1 (from question #19)** | Domain 1 – Scientific and Evidence Base of Practice: Integrate scientific information and translation of research into practice |
| Assessment Measure | Outcome CRDN 1.5 Conduct projects using appropriate research methods, ethical procedures and data analysis Direct measure: NS 6303 Research manuscript - 80% of students will receive a grade of B or better, based on the rubric for this course project Indirect measure: NS 6313 Student survey - 100% of students will complete the self-assessment survey pertaining to the research poster and participation in Create@State event |
| Assessment  Timetable | Fall semester, every 3 years, 2023-2024, 2026-2027, 2029-2030 |
| Who is responsible for assessing and reporting on the results? | tMSND faculty |

*(Repeat if this new course will support additional program-level outcomes)*

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| **Program-Level Outcome 2 (from question #19)** | Domain 2 - Professional Practice Expectations: Exhibit beliefs, values, attitudes and behaviors for the professional dietitian nutritionist level of practice |
| Assessment Measure | Outcome CRDN 2.2 Demonstrate professional writing skills in preparing professional communications Direct measure: NS 6013 LinkedIn profile – 80% of students will receive a letter grade of B or better, based on the rubric for this assignment Indirect measure: Exit survey – 100% of students will complete and submit exit survey regarding degree experience, including feedback on development of professionalism during program enrollment |
| Assessment  Timetable | Spring, every 3 years, 2023-2024, 2026-2027,2029-2030 |
| Who is responsible for assessing and reporting on the results? | tMSND faculty |

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| **Program-Level Outcome 3 (from question #19)** | Domain 3 – Clinical and Customer Services: Develop and deliver information, products and services to individuals, groups and populations |
| Assessment Measure | Outcome KRDN 3.1 Use the Nutrition Care Process to make decisions, identify nutrition-related problems and determine and evaluate nutrition interventions Direct measure: Exit exam – 80% of students will score at least 80% on cumulative exit exam at end of program, indicating among other competencies, an ability to apply knowledge of the Nutrition Care Process Indirect measure: Time to degree/program length – 100% of students will complete degree requirements within 150% of planned program length (1.5 years) as a measure of time to achieve required competencies in the program |
| Assessment  Timetable | Spring, every 3 years, 2024-2025, 2027-2028, 2030-2031 |
| Who is responsible for assessing and reporting on the results? | tMSND faculty |

**Course-Level Outcomes**

1. What are the course-level outcomes for students enrolled in this course and the associated assessment measures?

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| **Outcome 1** | CRDN 1.2 Apply evidence-based guidelines, systematic reviews and scientific literature  CRDN 2.2 Demonstrate professional writing skills in preparing professional communications  CRDN 3.1 Perform the Nutrition Care Process and use standardized nutrition language for individuals, groups and populations of differing ages and health status, in a variety of settings |
| Which learning activities are responsible for this outcome? | Complete a case study on an oncology patient, following the Nutrition Care Process, to include assessment, diagnosis, intervention and monitoring/evaluation. Plan of care should apply evidence-based guidelines and recommendations from scientific literature. |
| Assessment Measure | 80% of students will receive a letter grade of B or high on the case study activity, based on the assignment guidelines and rubric, to meet this outcome. |

*(Repeat if needed for additional outcomes)*

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| **Outcome 2** | CRDN 1.6 Incorporate critical-thinking skills in overall practice  CRDN 2.4 Function as a member of interprofessional teams |
| Which learning activities are responsible for this outcome? | Develop a plan for a model oncology program in a cancer center, including descriptions of professionals who will be part of the treatment team. The paper should reference the standards of care published by the American College of Surgeons Commission on Cancer and the Joint Commission. |
| Assessment Measure | 80% of students will receive a letter grade of B or higher on this project, based on the assignment guidelines and rubric, to meet this outcome. |

**Bulletin Changes**

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| **Instructions** |
| **Please visit** [**http://www.astate.edu/a/registrar/students/bulletins/index.dot**](http://www.astate.edu/a/registrar/students/bulletins/index.dot) **and select the most recent version of the bulletin. Copy and paste all bulletin pages this proposal affects below. Please include a before (with changed areas highlighted) and after of all affected sections.**  **\*Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.**  **.** |

Insert after Nursing and before Occupational Therapy on page 382-383

***NS 6233. Nutrition and Cancer Focuses on the critical role of nutrition in cancer prevention, complications, treatment and recovery. Includes universal characteristics of cancer as well as an in-depth discussion of medical nutrition therapy for three high-risk disease types.***