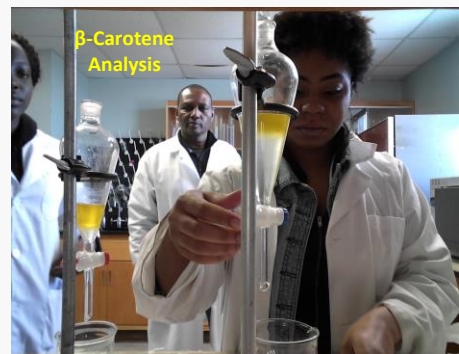


Department of Food and Nutritional Sciences HANDBOOK

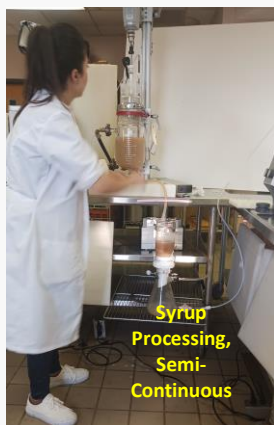
Graduate Program



Syrup Processing,
Brix Monitor



β -Carotene
Analysis



Syrup
Processing,
Semi-
Continuous



Protein
Extraction



Mycotoxins
Analysis

College of Agriculture, Environment and Nutrition Sciences

Tuskegee University, Tuskegee, Alabama

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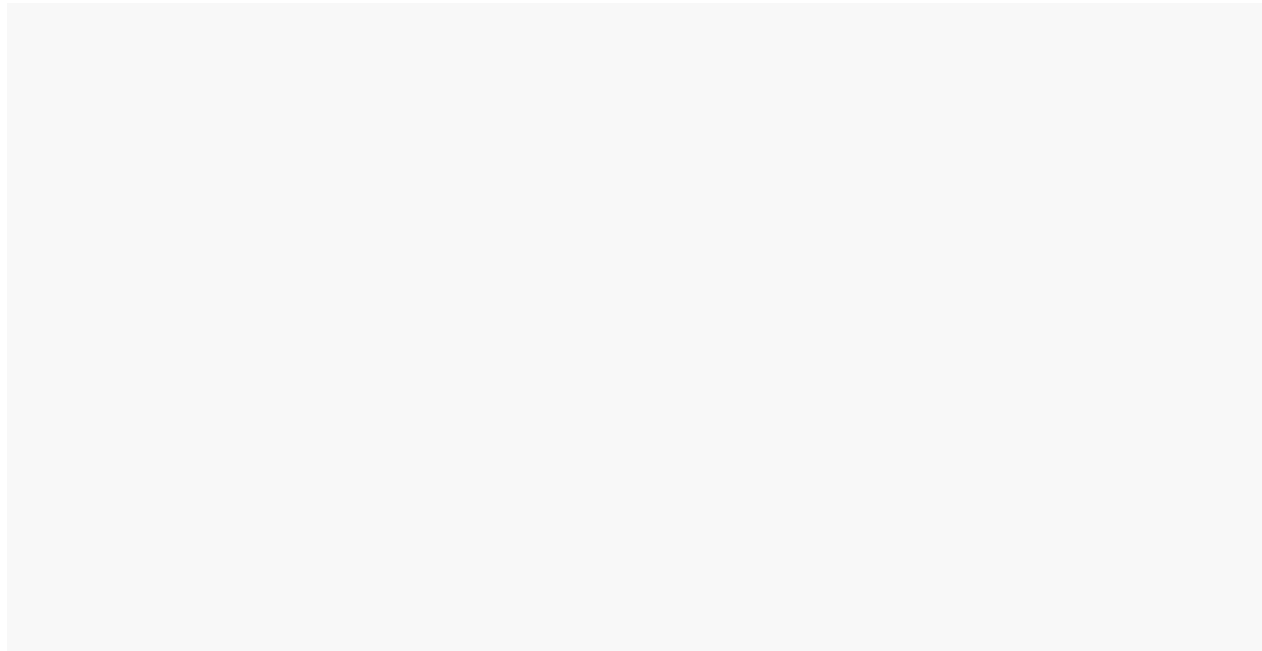
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Graduate Program

The Department of Food and Nutritional Sciences (FNS) Graduate Program offers M.S. degrees in Food and Nutritional Sciences (thesis and non-thesis) and is also part of the Integrative Biosciences Ph.D. program.

Contact Information

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M.S. Program

The Department offers a two-year degree program leading to the Masters of Science in Food and Nutritional Sciences with two major options: **Food Science** or **Nutritional Science**. This graduate study provides the opportunity for greater breadth and depth in a selected area of specialization to prepare students for work in a global economy.

The Master's programs offer opportunities for creative endeavors through basic and applied research. This is best accompanied by a curriculum which is broad in scope and includes work in the areas of **food safety**, **food product development**, **nutritional biochemistry** and **community nutrition**.

It is imperative that a prospective student has a B.S. degree in food science, nutrition, general dietetics, public health nutrition or related areas before applying for this program.

The department also offers a Master's of Science in Food and Nutrition, non-thesis option; the program requires 30 course credits and successful passage of a comprehensive examination.

- [Admission Requirements](#)
- [Graduation Requirements](#)
- [Core Courses](#)
- [Research Assistantships and Fellowships](#)

Ph.D. Program

The Department of Food and Nutritional Sciences is part of the Doctor of Philosophy (Ph.D.) program in **Integrative Biosciences** (IBS).

More Information

For detailed information about Graduate education, please refer to the [Graduate Handbook](#) and [The Graduate School](#).

M.S. Program

Admission, Graduation and Assistantship

Admission Requirements

All students accepted into the graduate program, must have a B.S. degree from an accredited university in food science, nutrition, dietetics or in a related STEM area as biology, chemistry, engineering, etc.

- Prerequisite academic work should provide evidence that the applicant should be able to pursue the graduate course of study effectively
 - If a student comes from a related major one course in food science and one in nutrition science are required
- Applicants must have a cumulative GPA of 3.0 or better
- GRE score is required
- Official Transcript from all colleges/universities attended
- Application fee satisfied
- Three (3) letters of recommendation
- Statement of purpose

Additional requirements for International students

- Must have transcripts translated through World Education Services (**WES**)
- Financial support/affidavit
- Test of English as Foreign Language (**TOEFL**) scores

Application

To apply and for more information, contact the **Graduate School**, at <https://www.tuskegee.edu/graduate-school>

Graduation Requirements

- Core Courses: 18 credits
- Food Science Emphasis: 9 Credits or more. Nutrition Science Emphasis: 9 Credits or more
- Thesis research: 6 credits
- Thesis Proposal Defense, Course Academic Defense, Admission to Candidacy
- Passing of the Final Oral Examination

Thesis Committee

During the first semester of study in the M.S. program, all incoming graduate students are requested to meet each graduate faculty to discuss possible research options and opportunities. Subsequently, student will choose a major professor. Then student and the professor meet weekly to begin drafting ideas for a thesis proposal for presentation and defense before a 4-5 member committee. This committee also serves for the academic and thesis defense and is selected by the student and the major professor. Approval is provided by the Department Head.

M.S. Curriculum

CORE COURSES (18 credits): Required for All Students in the Master's (M.S.) Program

EVSC 0500: Biostatistics	3 credits (Fall)
NUSC 0501: Professional Seminar (2nd Semester)	1 credit (Spring)
FOSC 0505: Methods of Food and Nutritional Analysis (Lect.)	2 credits (Fall)
FOSC 0506: Methods of Food and Nutritional Analysis (Lab)	2 credits (Fall)
FOSC 0510: Food Chemistry	4 credits (Spring)
NUSC 0554: Seminar in Food Science and Nutritional Science (Required to be taken for 2 semesters)	1 credit (Spring)
CHEM 0561: Biochemistry	3 credits (Fall)
CHEM 0562: Biochemistry Laboratory	1 credit (Fall)
NUSC/FOSC 0700: Research in Nutritional Science or Food Science (1-2 credits at a time)	6 credits

FOOD SCIENCE EMPHASIS:

FOSC/NUSC 0602: Scientific Research Methods	3 credits (Spring)
NUSC 0650/0651: Vitamins and Mineral in Human Nutrition or Human Nutrition and Health	3 credits (Spring/Fall)
FOSC 0661: Food Ingredient Chemistry	3 credits (Fall)

NUTRITION SCIENCE EMPHASIS:

NUSC 0650: Vitamins and Mineral in Human Nutrition	3 credits (Spring)
NUSC 0651: Human Nutrition and Health	3 credits (Fall)
NUSC 0652: Nutrition and Disease	3 Credits (Spring)

ELECTIVES

FOSC 0507: Applied Food Microbiology	3 credits (Fall)
FOSC 0571: Food Process Engineering Technology	4 credits (Fall)
FOSC 0573: Product Research Innovation and Sensory Evaluation of Foods	4 credit (Fall)
NUSC 0570: Maternal and Child Nutrition	3 Credits (Fall)
NUSC 0575: Advanced Community Nutrition	3 credits (Fall/Spring)
NUSC 0604: International Nutrition Problems & Policies	3 credits (Spring)
NUSC 0608: Recent National and International Development in Food & Nutritional Science	3 credits (Fall)
EDU 0506: Introduction to Research (2nd Semester)	3 credits (Spring)
CHEM 0541: Instrumental Analysis (2nd Semester)	3 credits (Spring)

Food and Nutritional Sciences Electives (29 credits available):

Selected by Student and Major Professor

Elective courses may be chosen from any graduate level course listed as an elective in the Department of Food and Nutritional Sciences. Other graduate elective courses may also be taken at Tuskegee University or elsewhere upon the approval of the major professor.

Transfer Credits

The student's Advisory Committee may recommend transfer credits for up to 9 hours for graduate courses taken by the student at Tuskegee University as part of another graduate program or at any other institution. Transfer credits may be recommended under both core and elective categories.

Admission to Candidacy

Immediately after completing one year (~18 hours of course work) at Tuskegee University, the student must submit to the Dean of Graduate Studies, a completed application for the Candidacy for the degree.

Seminars

A student pursuing the Master of Science degree in Food and Nutritional Sciences must present at least two seminars. The first seminar should be the presentation of the student's research area of interest for the Master's thesis. The second or the final seminar shall be his/her thesis research for the degree.

Thesis Proposal Defense

A thesis proposal developed for presentation and defense before a five (3-5) member committee (this committee also serves for the academic and thesis defense) must be done after one year in the program.

Course Academic Defense

Students are required to have an academic defense covering course content in their major area.

Thesis

- The final draft of the thesis must be filed with the student's Advisory Committee at least 30 days before the date listed in the university calendar for final copies to be submitted during the semester in which the student expects to graduate.
- The student must present to the Dean of Graduate Programs a "Preliminary Approval Sheet" (PAS) bearing the signature of the Major Professor before the final oral examination may be scheduled and before copies of the thesis/dissertation are distributed to members of the Examining Committee.
- After the "Preliminary Approval Sheet" is signed, it should be submitted to the Dean of Graduate Programs before the final examination is scheduled and before the final draft of the thesis/dissertation is prepared for final approval.
- Approval of the thesis/dissertation in its final form rests with the Examining Committee.

Non-Thesis

This program is a 12 to 18-month program requiring 30 course hours from core and the student's major emphasis (nutrition or food science). Students are required to take a final examination and pass with a minimum of an 80 %. Only one retake is allowed.

The student must be a candidate for the degree. The student must have completed all courses for the degree with a minimum cumulative grade point average of 3.0. The student must assist the Major

Professor/Department Head in completing the Letter of Completion of the Degree Requirements and sending it to the Office of Graduate School.

Academic Standing

A student working towards a MS degree at Tuskegee University must maintain a “B” (3.00) average in all work included in the program of study outlined for the degree, with no more than six (6) semester hours of “C” grades (that is, no more than 2 “Cs”). Grades of “D” are unacceptable. When the student’s record falls below 3.00, probation becomes automatic. If at the next session in which the student is registered (semester or summer) and the CGPA does not equal or exceed 3.00, then the graduate status will be forfeited, and the student will no longer be permitted to pursue work leading to a graduate degree at Tuskegee University.

Research Assistantships and Fellowships

Available for students admitted to the program on the thesis option only.

Continuation of the financial support depends on student’s performance in course work and research, and availability of funds.

Financing Graduate Education at Tuskegee University

The Office of Financial Aid Services at Tuskegee University manages financial aid and scholarship resources from the University, federal, state, county and private sources.

The funds are awarded to ensure that the opportunity to attend the University is provided for eligible students. The Tuskegee University Financial Aid Program is designed to reward academic achievement and to provide financial assistance to supplement family resources.

The primary responsibility for financing college expenses rests with the student, however, the Office of Financial Aid Services will do everything possible to provide financial planning assistance to students.

We believe students should select Tuskegee University based upon educational considerations and not financial factors.

Students who have been admitted to Tuskegee University should write to the Office of Financial Aid Services for materials and procedures regarding financial assistance. EARLY APPLICATION IS ENCOURAGED. The priority deadline date to submit the Student Aid Report to Tuskegee University is March 31st of each year.

Eligibility for Financial Aid:

Students who meet the following criteria may be eligible for financial aid:

- United States citizens or permanent residents of the United States
- Admitted in an approved degree-granting program
- Making satisfactory progress and in good academic standing as defined by the University
- Enrolled at least half time in an approved degree-granting program
- Have proof of compliance with Selective Service registration requirements
- Not in default on a Perkins Loan (formerly National Direct Student Loan) or Stafford Student Loan (formerly Guaranteed Student Loan)
- Do not owe a refund on a Pell Grant or Supplemental Education Opportunity Grant

Applicants for financial aid must have been accepted to Tuskegee University before an award can be made. Transfer students must have their former institution(s) send a financial aid transcript(s) to the University.

Financial aid to graduate students at Tuskegee University is divided into two general types: fellowships administered through the Office of Financial Aid Services and research and teaching assistantships administered by individual departments.

Each student who applies for admission to the Graduate School may also apply simultaneously for an assistantship and/or fellowship by writing a letter directly to the Head of the Department. Each applicant should forward all application materials, except recommendation forms, directly to the Office of Graduate School. Completed recommendation forms should be sent to the Head of the Department.

Additional Information:

For further information, please refer to the Tuskegee University [Graduate Student Handbook](#).

Enrollment of Graduate Students Receiving Financial Support

Graduate students holding the title of Research Assistant, or Teaching Assistant will be required to register during the fall and spring semesters. Students who have completed course requirements are required to be registered for the appropriate categories (courses numbered 700, 752, or 754). Students remaining in the Graduate Program during the summer session must register for at least the continuous registration course (course numbered 752).

Policies Governing Graduate Fellowships and Research or Teaching Assistantships:

1. Applicants should generally have at least a grade point average of 3.00 out of a possible 4.00 in both undergraduate and any prior graduate work.
2. Holders of fellowships or assistantships are expected to pursue a full-time schedule of courses and teaching or research assignments. They must maintain the scholastic standards established for graduate students in good standing. They must not otherwise be gainfully employed during the term of appointment. A student cannot hold more than one appointment during any given period of time.
3. Teaching assistantships are awarded for the academic year only, unless otherwise noted, while research assistantships/fellowships may be awarded for the calendar year.

Program of Study and Research

GENERAL

The roles of graduate students include, but are not limited to, the following:

1. Graduate students should be in constant communication with the major advisor and the advisory committee.
2. Students should expect assignments besides their area of research as service to the Departmental goals.
3. Students are responsible, with the help of the advisor, to keep deadlines, contact with committee members, and complete the necessary paperwork for candidacy, thesis defense, and graduation.
4. If a graduate student is receiving a stipend from the Department, he/she should be open to help with teaching, outreach, and other research activities as assigned by their major advisor, advisory committee, or Department head.

Most graduate students (except MS Non-Thesis Option students) will be engaged in research and a limited number will be Teaching Assistants during their course of study. The student, with the aid of the Major Advisor, will choose a specific area of research

The actual research project will be in a specific area of interest common to both the student and the advisor and will culminate in a thesis.

Additional Information

For additional information please see the Tuskegee University **Graduate Student Handbook** at: <https://www.tuskegee.edu/graduate-school/graduate-handbook>