



NUTRITION

B.S. OR B.A. IN NUTRITION

B.S. OR B.A. IN NUTRITIONAL BIOCHEMISTRY AND METABOLISM

The Department of Nutrition's focus is on human nutrition and the application of the science of nutrition to the maintenance and improvement of health. An undergraduate degree is appropriate for students who wish to: pursue graduate programs in nutritional biochemistry, molecular nutrition, dietetics, public health nutrition or other biomedical science; enter professional schools of dentistry, medicine or nursing; apply to dietetic internships or approved experience programs to prepare for the professional practice of dietetics; and/or pursue technical careers in the food or pharmaceutical industry. Although the Department of Nutrition is one of the departments of the Case School of Medicine and is physically located at the School of Medicine, all undergraduate degrees are awarded by the College of Arts and Sciences.

DEPARTMENT HIGHLIGHTS

- As one of the School of Medicine's basic science departments, the department has initiated and fostered systematic efforts to disseminate the knowledge of nutrition and nutrition research to the university community through its monthly Research Seminar Series.
- Beyond the university, the department enjoys strong and long-standing relationships with several highly respected organizations. There are numerous summer research opportunities available to students funded by the Department of Nutrition as well as the American Heart Association and the Diabetes Association of Greater Cleveland. In addition, committed relationships with local community-based health care agencies and hospitals continue to provide interested students with meaningful clinical experience.
- In addition to the four undergraduate degrees, the Department of Nutrition offers graduate programs leading to the M.S. in nutrition, the M.S. in public health nutrition and the Ph.D. in nutritional biochemistry and metabolism, as well as in molecular nutrition. These programs afford mutually beneficial and enriching interactions between undergraduate and graduate students.

DEGREE REQUIREMENTS AND COURSE OFFERINGS

All undergraduate degrees (B.A. and B.S. in nutrition, and B.A. and B.S. in nutritional biochemistry and metabolism) offered by the department require completion of the General Education Requirements in addition to significant coursework in the basic sciences.

Examples of courses offered by the department are:

- NTRN 328 Child Development and Health
- NTRN 363 Human Nutrition I: Energy Protein, Minerals
- NTRN 364 Human Nutrition II: Vitamins
- NTRN 365 Nutrition in Disease

The B.S. in nutrition prepares students for further training and/or graduate studies in: nutrition, dietetics, public health nutrition, medicine, dentistry, nursing and allied health. The B.A. in nutrition offers the opportunity to study the science of nutrition in a more flexible way than the B.S. It is well-suited for students who wish to complete a double major or dual degree program. The B.A. in nutrition is easily combined with a variety of other majors, easily accommodates the requirements of a pre-med curriculum. Please see the General Bulletin (www.case.edu/bulletin) for a complete list of course offerings and detailed course descriptions.

The bachelor of science degree in nutrition requires the completion of the Arts and Sciences General Education Requirements (GER), PHED 101 and 102 and the following courses:

- NTRN 201, 342, 343, 363, 364 and three NTRN electives
- CHEM 105, 106, 113, 223
- BIOL 214; BIOL 216 or BIOL 348 or PHOL 480
- BIOC 307 or DEND 307
- STAT 201 or 243 or 312 or 313

The bachelor of arts in nutrition degree requires the completion of the Arts and Sciences GER, PHED 101 and 102 and the following courses:

- NTRN 201, 342, 343, 363, 364, 399 and two NTRN electives
- CHEM 105, 106, 223
- BIOL 214; BIOL 216 or BIOL 348 or PHOL 480
- BIOC 307 or DEND 307

The bachelor of science degree in nutritional biochemistry and metabolism requires the completion of the Arts and Sciences GER, PHED 101 and 102 and the following courses:

NTRN 201, 342, 363, 364, 452

NTRN elective: three credit hours at 300-level or above

MATH 121 (or 123), 122 (or 124), 223 (or 227), 224 (or 228)

ENGR 131

CHEM 105, 106, 113, 223 (or 323), 224 (or 324), 233, 234

BIOL 214, 215

BIOL 216 or BIOL 348 or PHOL 480

PHYS 121 and 122 or 123 and 124; 221 or 223

BIOC 307, 334

The bachelor of arts degree in nutritional biochemistry and metabolism requires the completion of the Arts and Sciences GER, PHED 101 and 102 and the following courses:

NTRN 201, 342, 363, 364, 452

NTRN electives: six credit hours at 300-level or above

MATH 125, 126 (or 121, 122)

CHEM 105, 106, 113, 223 (or 323), 224 (or 324), 233, 234

BIOL 214, 215

BIOL 348 or PHOL 480

PHYS 115, 116

BIOC 307, 334

The basic sequence for the minor in nutrition consists of:

NTRN 201, Nutrition

NTRN 343, Dietary Patterns; and

at least nine credit hours of nutrition courses, selected in consultation with a department adviser.

SPECIAL ACADEMIC PROGRAMS

Didactic Program in Dietetics

Students interested in applying to dietetic internships must meet specific academic requirements as required by the Commission on Accreditation for Dietetics Education of the American Dietetic Association. These requirements are met in the courses that comprise the Didactic Program in Dietetics. The DPD at Case is accredited by the Commission on Accreditation for Dietetics Education of the American Dietetic Association in Chicago. Interested students should consult a department adviser in the freshman or sophomore year.

Integrated Graduate Studies

The Integrated Graduate Studies (IGS) program is intended for highly motivated students pursuing a B.A./B.S. who also want to earn a master's degree or doctorate. By more closely integrating undergraduate and graduate studies through this program, you may be admitted to graduate study for your senior year and pursue the simultaneous completion of requirements for both your master's and bachelor's degrees.

Interested and eligible students may choose to complete both the B.A. and M.A. degrees or the B.A. and M.S. degrees in a single program of study.

RESEARCH OPPORTUNITIES AND FACILITIES

Research-intensive courses include:

NTRN 390 Undergraduate Research

Guided laboratory research in nutritional biochemistry or molecular nutrition. This course enables a student to work with a full-time research faculty member with exposure to a serious research environment.

NTRN 399 Senior Project

A formal investigation of a topic in nutrition finalized with a paper and oral presentation.

NTRN 371 and 372 Special Problems

Independent reading, research or special projects supervised by a member of the faculty.

The department has laboratory space in the new sixth floor addition of the Harland G. Wood Building at the School of Medicine.

This enhancement allows four full-time research faculty to conduct their work in a state-of-the-art facility.

RECENT GRADUATES

Graduates of the Department of Nutrition compete successfully for placement in graduate programs, dietetic internship programs, medical school, dental school and other professional endeavors. Due to its science requirement, the nutrition program provides an excellent preparation and academic accessibility to medical and dental schools as well as to most Ph.D. programs in the biological sciences.

Recent B.A. and B.S. graduates have found positions in many companies, including Ross, Merck & Co. and Sodexo. Many of our graduates are working as clinical dietitians in hospitals and medical center settings.

Recent alumni of our graduate school programs have gone on to medical school at Case and at Wright State University; been accepted to post-doctoral programs at Yale University School of Medicine and at Northwestern University; and started work as assistant professors of pediatrics at Baylor Medical College and Case.

FOR MORE INFORMATION

General Bulletin

www.case.edu/bulletin

Office of Undergraduate Admission

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