

HUMAN DISEASE - MINOR

College of Sciences and Humanities
Department of Biological Sciences
www.kent.edu/biology

About This Program

The Human Disease minor provides students with a chance to develop a deep understanding of the complex processes and mechanisms that cause the human diseases commonly seen in medical settings.

Contact Information

- **Edgar Kooijman** | ekooijma@kent.edu | 330-672-8568
- Speak with an Advisor

Program Delivery

- **Delivery:**
 - In person
- **Location:**
 - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

| Code | Title | Credit Hours |
|--|---|--------------|
| Minor Requirements | | |
| BSCI 10120 | BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB) | 4 |
| BSCI 30140 | CELL BIOLOGY | 4 |
| BSCI 30156 | ELEMENTS OF GENETICS | 3 |
| Biological Sciences (BSCI) Electives, choose from the following: | | 11-12 |
| BSCI 30171 | GENERAL MICROBIOLOGY | |
| BSCI 40148 | PRINCIPLES OF INFECTIOUS DISEASE | |
| BSCI 40150 | MOLECULAR MECHANISMS OF DISEASE: CANCER | |
| BSCI 40151 | MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES | |
| BSCI 40152 | MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS | |
| BSCI 40154 | DIABETES AND CARDIOVASCULAR DISEASE | |
| BSCI 40157 | NEUROBIOLOGY OF DRUG ADDICTION | |
| BSCI 40174 | IMMUNOLOGY | |
| BSCI 40581 | ANIMAL PARASITOLOGY | |

Minimum Total Credit Hours:

22

Graduation Requirements

| Minimum Minor GPA | Minimum Overall GPA |
|-------------------|---------------------|
| 2.000 | 2.000 |

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

The following Biological Sciences (BSCI) courses may NOT be used in the elective category for majors or minors in the Department of Biological Sciences:

| Code | Title | Credit Hours |
|------------|--|--------------|
| BSCI 10001 | HUMAN BIOLOGY (KBS) | 3 |
| BSCI 10002 | LIFE ON PLANET EARTH (KBS) | 3 |
| BSCI 10003 | LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB) | 1 |
| BSCI 10005 | SMALL ANIMAL ANATOMY AND PHYSIOLOGY FOR VETERINARY TECHNICIANS | 4 |
| BSCI 11010 | FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) | 3 |
| BSCI 11020 | FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) | 3 |
| BSCI 16001 | HORTICULTURAL BOTANY | 3 |
| BSCI 20019 | BIOLOGICAL STRUCTURE AND FUNCTION | 4 |
| BSCI 20021 | BASIC MICROBIOLOGY | 3 |
| BSCI 20022 | BASIC MICROBIOLOGY LABORATORY | 1 |
| BSCI 21010 | ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) | 4 |
| BSCI 21020 | ANATOMY AND PHYSIOLOGY II | 4 |
| BSCI 26002 | ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT | 3 |
| BSCI 26003 | PLANT IDENTIFICATION AND SELECTION I | 3 |
| BSCI 26004 | PLANT IDENTIFICATION AND SELECTION II | 3 |
| BSCI 30050 | HUMAN GENETICS | 3 |
| BSCI 40020 | BIOLOGY OF AGING | 3 |

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand disease processes of prevalent human diseases, including cancer, neurological diseases, addiction, obesity, cardiovascular disease and diabetes and infectious disease.
2. Appreciate the deleterious health impacts of these diseases, and demonstrate understanding of current treatment options.
3. Read and analyze primary scientific reports related to human disease and their underlying cellular, molecular, physiological and behavioral mechanisms.