MASTER of SCIENCE in BIOLOGY

- Rolling admission
- Full-time program with a fall start
- Courses taught during the day
- Small to medium class sizes
- No GRE required

NEW!

- Two tracks available
  - HUMAN BIOLOGY TRACK: ideal for students interested in the health professions including medicine, dentistry, pharmacy, optometry, etc. Health professions committee staff assist with application preparation, shadowing, and mock interviews
  - ENVIRONMENTAL BIOLOGY TRACK: designed for students with an interest in ecology and conservation biology
- NON-THESIS OPTION: one-year, accelerated program designed for students who wish to improve their credentials and/or complete requirements prior to entering another advanced degree program, including those in the health professions
- THESIS OPTION: traditional, two-year program provides research experience especially useful for students who wish to apply to Ph.D. programs. Requires successful defense of research proposal
- No final comprehensive examination
- A limited number of paid positions are available to students as Supplemental Instructors (SI) to assist with undergraduate courses (does include tuition remission)
- Students may transfer a maximum of two graduate-level courses (6 credits)
- Cross registration for courses at neighboring institutions available

chatham UNIVERSITY

COLLEGE FOR GRADUATE STUDIES

Office of Graduate Admissions
Woodland Road . . . Berry Hall . . . Pittsburgh, PA 15232
800-837-1290 . . . admissions@chatham.edu

chatham.edu/Mbio

ADMISSION REQUIREMENTS

- A baccalaureate degree from an accredited college or university
- Overall undergraduate grade point average (GPA) of 3.0 or above on a 4.0 scale (Conditional admission may be granted for applicants with a GPA of less than a 3.0 who show promise through their other achievements. Additional letter required.)
- Completed application form
- Official transcripts from all colleges and universities attended
- Resumé and/or additional supporting information on professional or volunteer activities
- Two letters of recommendation, at least one from a science faculty member
- Personal essay on career plans
- Payment of non-refundable $45 application fee. Online application without fee: http://www.chatham.edu/admissions/apply.cfm
- Successful completion – with a GPA of 3.0 or above on a 4.0 scale – of courses equivalent to those needed to obtain a baccalaureate degree in biology, including:
  - One year introductory biology (with lab)
  - One year introductory chemistry (with lab)
  - One semester organic chemistry (with lab) – two semesters preferred
  - One course in statistics
  - One additional college-level mathematics course
  - Three or four upper level courses in biology or biochemistry

CHATHAM UNIVERSITY GRADUATE PROGRAMS IN SCIENCE AND HEALTH PROFESSIONS

- Master of Science in Biology
- Master of Occupational Therapy
- Master of Physician Assistant Studies
- Doctor of Physical Therapy
- Transitional Doctor of Physical Therapy

MS IN BIOLOGY

The **human biology track** is designed primarily for students who wish to improve their credentials and/or complete requirements for advanced programs in medicine, dentistry, pharmacy, optometry etc. The **environmental biology track** includes classroom, laboratory, and field work experiences suitable for students wishing to pursue careers in environmental services, research, education, or advocacy. The thesis and non-thesis options are available for both tracks: thesis courses are substituted for two electives. Entry into the thesis track requires departmental approval.

HUMAN BIOLOGY TRACK REQUIRED COURSES (33-35 credits)

- BIO 502 Human Gross Anatomy (4) and BIO 502L Human Gross Anatomy Lab (2)
- BIO 504 Human Physiology (3)
- BIO 506 Principles of Neuroscience (3) and BIO 506L Principles of Neuroscience Lab (1)
- BIO 532 Biostatistics (3)
- BIO 623 Methods of Biological Research (2)
- Five electives from the list below (or Thesis I and II and three electives)

ENVIRONMENTAL BIOLOGY TRACK REQUIRED COURSES (32-33 credits)

- BIO 511 Seminar in Environmental Biology (3)
- BIO 525 Plant Development (3) or BIO 584 Plant Physiology (3)
- BIO 532 Biostatistics (3)
- BIO 623 Methods of Biological Research (2)
- BIO 639 Internship (3)
- LNS 510 Introduction to GIS (3)
- LAR 534 Soil Science (3)
- LAR 575 Field Ecology or LAR 578 Wetlands Ecology (3)
- Three electives from the list below (or Thesis I and II and one elective)

ELECTIVES

- BIO 508 Developmental Biology (3)
- BIO 517 Genetics (3)
- BIO 518 Chemical Analysis Lab (3)
- BIO 531 Advanced Cell and Molecular Biology (3)
- BIO 538 Biochemistry I (3)
- BIO 539 Biochemistry II (3)
- BIO 540 Advanced Cell/Molecular/Biochemistry Lab (2)
- BIO 551 Bioinformatics (3)
- BIO 552 Computational Drug Design (3)
- CHM 543 Advanced Environmental Chemistry (3)
- ENV 525 Environmental Policy (3)
- HSC 600 Current Issues in Health Care *(online)* (3)
- HSC 601 Healthcare Policy and Medical Ethics *(online)* (3)
- HSC 602 Fundamentals of Public Health *(online)* (3)
- HSC 603 The Business of Health Care *(online)* (3)
- LAR 514 Landscape Ecology (3)
- LAR 516 Plant Identification (3)
- LAR 518 Native Plants (3)
- LAR 535 Diseases and Pests (3)
- LAR 575 Field Ecology (3) *(if not taken for requirement)*
- LAR 578 Wetlands Ecology (3) *(if not taken for requirement)*
- LAR 543 Ornamental Horticulture (3)
- PSY 503 Applied Biological Psychology (3)
- PSY 629 Human Development Across the Lifespan (3)
- PSY 663 Foundations of Health Psychology (3)
- PWR 616 Technical Writing and Editing *(online)* (3)
- PWR 632 Science Writing *(online)* (3)

**Students may substitute two undergraduate courses for one graduate elective upon recommendation to the dean of the College for Graduate Studies from the program director*