

more human.

Human Physiology

UNDERGRADUATE STUDENT MANUAL

AY 2024-2025

A letter from the program director

The Human Physiology Program in the Department of Health Sciences is dedicated to being **more human**. To us, this means we value each student, their unique perspectives, and their unique interests. As such, we try to provide a **more human** undergraduate experience by offering more inclusive and human-based coursework, offering hands on research mentorship, advising students with full-time faculty, promoting networking and life skills, and intentionally preparing students for the next phase of their life.

The Human Physiology program has a stellar record for preparing students for successful admission to professional health care programs (MD, DO, PA, PT, OT, Dental, etc.), but that is only part of the story. Our curriculum leads to successful careers in the booming life sciences industry, or even a distinguished career in academia. The Human Physiology major provides an alternative to the traditional biology degree, with a focus on studying systems/humans more than cells and reactions. Our curriculum expands upon the required premedical requirements with the addition of classes such as gross human anatomy, exercise physiology, muscle physiology, neuroanatomy and neurophysiology, pulmonary pathophysiology, and cardiovascular pathophysiology. We also leverage our vast network of affiliated research laboratories to lend students a chance to get involved in scientific discovery, while also boosting their appeal to graduate/medical schools.

We want students and faculty that believe in the development of a holistic undergraduate student to be a part of our program. We have laid out a pathway that we believe will lead to success for students in the future, and we strive to maintain an environment that allows students to be engaged and enjoy their journey along this path. We believe our students will leave the Human Physiology program more prepared, more knowledgeable, and above all, **more human**.

Let's enjoy the journey together,

Dustin Allen, PhD

Director of the Human Physiology Program



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I. What is needed to graduate?

Degree Requirements

To graduate with a BS in Human Physiology, the following requirements must be met:

- A total of **128 course credits** must be completed
- A cumulative G.P.A. of 2.0 must be maintained to remain in [good academic standing](#).
 - An overall G.P.A. of 2.0 is needed to enter your 3rd year to enroll in the internship course
- **No more than 16 credits of D grades** (four 4-credit courses) will be allowed.
 - Each student's respective advisor will determine what course, in case of a fifth D, would be retaken.
- Courses taken outside of Boston University must be a C or above to receive credit.
- An application for graduation must be completed one semester prior to graduation and can be obtained from the [SAR Academic Services Center](#) (ASC).

Sargent College Degree Requirements

- Sargent College requires a minimum of 48 credits be taken at Boston University to fulfill requirements for graduation. Individual departments may require more.
- Sargent College baccalaureate degree requirements must be completed within eight years of the initial date of matriculation at Boston University.
- All Sargent College students are required to complete a college-level English composition course.
 - Advanced placement units and/or exemption by SAT scores may not be used to meet this requirement.
- No degree credit for incomplete courses will be granted unless the work is completed by the date assigned, which must be no later than one calendar year of the date on which the incomplete date is reported.
 - In the event that coursework remains incomplete on the assigned date or twelve months after the I grade has been awarded, whichever comes first, the I grade will be changed automatically and permanently to an F grade.

Curriculum Requirements

The Human Physiology curriculum is posted in more detail online, and can be found at [this link](#).

Example BS Curriculum

		1 st Semester		2 nd Semester	
1st Year	CAS BI 107	Biology I	CAS BI 108	Biology II	
	CAS CH 101	General Chemistry I	CAS CH 102	General Chemistry II	
	CAS WR 120	First-Year Writing Seminar	CAS WR 151/152/153	Writing, Research, & Inquiry	
	CAS PS 101	General Psychology	SAR HP 151	Intro to Health & Rehab. Sciences	
	SAR HP 150	First-Year Sargent Seminar	HUB Electives	HUB Course List	
2nd Year	CAS BI 203	Cell Biology	CAS BI 315	Systems Physiology	
	CAS CH 203	Organic Chemistry I	CAS CH 204 or CAS CH 214	Organic Chemistry II or Organic Chemistry w/ Qualitative Analysis	
	CAS MA 121	Calculus for the Life and Social Sciences I	CAS MA 122 or CAS MA 115	Calculus for Life Social Sciences II or Statistics I	
	HUB Electives	HUB Course List	HUB Electives	HUB Course List	
3rd Year	CAS CH 373 or CAS CH 421	Principles of Biochemistry or Biochemistry I	SAR HS 342	Exercise Physiology	
	CAS PY 105	Elementary Physics I	CAS PY 106	Elementary Physics II	
	SAR HS 251	Human Nutrition Science	CAS MA 116 or CAS MS 214	Statistics II or Applied Statistics	
	SAR HP 353	Organization & Delivery of Health Care in the US	HUB Electives	HUB Course List	
4th Year	SAR HS 369	Gross Human Anatomy	SAR HS 371	Pulmonary Pathophysiology	
	SAR HS 375	Cardiovascular Pathophysiology	SAR HS 410/412* or SAR HP 495	Field Experience or Thesis for Distinction	
	SAR HS 410/412* or SAR HP 495	Field Experience or Thesis for Distinction	HP Elective	<i>HP Elective List (below)</i>	
	HUB Elective or HP Elective	HUB Course List or <i>HP Elective List (below)</i>	HUB Elective or HP Elective	HUB Course List or <i>HP Elective List (below)</i>	

** Please note that a maximum of 8 credits of SAR HS 410/412 will count toward the 128-credit graduation requirement.*

Human Physiology Electives:

- SAR HS 331 Physiology of Sex and Human Reproduction (Spring)
- SAR HS 332 Analyzing Bias and Discrimination in Medicine, Health, & Science (2 cr) (Spring)
- SAR HS 341 Physiology Across the Lifespan (Fall)
- SAR HS 362 Muscle Physiology (Spring)
- SAR HS 370 Neuroanatomy and Neurophysiology (Spring)
- SAR HS 371 Pulmonary Pathophysiology (Spring) ⁵
- SAR HS 375 Cardiovascular Pathophysiology (Fall) ⁵
- SAR HS 438 Pathophysiology in Marginalized Populations (Fall)
- SAR HS 452 Advanced Exercise Physiology (Fall)
- SAR HS 469 Advanced Regional Anatomy (2 cr) (Fall/Spring)
- SAR HS 549 Mechanisms of Disruption in Brain Disorders (Spring)
- SAR HS 576 Clinical Measurements in Cardiology (Spring)

Suggested Ways to **Customize** the Human Physiology Curriculum:

Medical School

- For students planning to apply to medical school, the Department recommends taking biochemistry CAS CH 421
 - CAS CH 373 is acceptable.
 - CAS CH 214 is the recommended 2nd semester organic chemistry course for those planning to take CAS CH 421
 - CAS CH 422 Biochemistry II may be taken as a general elective.
- The Department also recommends taking CAS SO 100 or CAS SO 215 to prepare for the MCAT.

Physician Assistant or Nursing Programs

- For students planning to apply to physician assistant or nursing graduate programs, the Department recommends taking microbiology with a lab: CAS BI 311 (**CAS BI 206, genetics, is a prerequisite**).
 - Depending upon the specific programs to which students apply, CAS BI114 or GMS BT426 may also fulfill the requirement.

Combined BS/MS in Human Physiology

- The curriculum is nearly the same as the BS-Human Physiology course of study through the 1st 3 years, however students will be required to take the year-long Biochemistry sequence (CAS CH 421/422)
 - Therefore, **students planning to apply to the BS/MS in HP program should enroll in biochemistry CAS CH 421** rather than CAS CH 373 during their 3rd year.

Early Decision BS-MS in Human Physiology Program

Application & Degree Requirements:

- Apply after completing 2 years of undergraduate study with minimum 3.2 GPA.
 - One year of general chemistry, one year of organic chemistry, and one year of general biology must be completed by the end of 2nd year.
- Application deadline is April 1 of 2nd year
 - official transcript must be submitted by June 1
 - decision will be made ~July 1 for acceptance into program for the fall semester of the 3rd year.
- To remain in the program, students must maintain a 3.00 GPA both cumulatively, and in the sciences, with no graduate level course grade below B-.
- Students will begin master's thesis research in their senior year.
- Students will graduate with a BS degree at the end of their 4th year in the program.
- By the end of their 5th year, students will have completed a master's thesis and will graduate with an MS degree.
- No more than 8 credits can count towards both degrees (*effective June 1, 2025*)

Example BS/MS Curriculum

		1 st Semester		2 nd Semester	
1st Year	CAS BI 107	Biology I	CAS BI 108	Biology II	
	CAS CH 101	General Chemistry I	CAS CH 102	General Chemistry II	
	CAS WR 120	First-Year Writing Seminar	CAS WR 151/152/153	Writing, Research, & Inquiry	
	CAS PS 101	General Psychology	SAR HP 151	Intro to Health & Rehab. Sciences	
	SAR HP 150	First-Year Sargent Seminar	HUB Electives	HUB Course List	
2nd Year	CAS BI 203	Cell Biology	CAS BI 315	Systems Physiology	
	CAS CH 203	Organic Chemistry I	CAS CH 204 or CAS CH 214	Organic Chemistry II or Organic Chemistry w/ Qualitative Analysis	
	CAS MA 121	Calculus for the Life and Social Sciences I	CAS MA 122 or CAS MA 115	Calculus for Life Social Sciences II or Statistics I	
	HUB Electives	HUB Course List	HUB Electives	HUB Course List	
3rd Year	CAS CH 421	Biochemistry I	CAS CH 422	Biochemistry II	
	CAS PY 105	Elementary Physics I	SAR HS 342	Exercise Physiology	
	SAR HS 251	Human Nutrition Science	CAS PY 106	Elementary Physics II	
	SAR HP 353	Organization & Delivery of Health Care in the US	CAS MA 116 or CAS MS 214	Statistics II or Applied Statistics	
4th Year	SAR HS 369	Gross Human Anatomy	SAR HS 371 or SAR HS 370	Pulmonary Pathophysiology or Neuroanatomy and Neurophysiology	
	SAR HS 375	Cardiovascular Pathophysiology	SAR HS 791	Directed Study and Research (MS course)	
	SAR HS 791	Directed Study and Research (MS course)	SPH BS 704	Introduction to Biostatistics (MS course)	
	HUB Elective or HP Elective	HUB Course List or <i>HP Elective List (below)</i>	HUB Elective or HP Elective	HUB Course List or <i>HP Elective List (below)</i>	
5th Year	SAR HS 750	The Physiologist's Toolbox	CAS BI 553	Molecular Biology II (w/ discussion)	
	CAS BI 552	Molecular Biology I (w/ discussion)	HP Elective	<i>HP Elective List (below)</i>	
	HP Elective	<i>HP Elective List (below)</i>	HP Elective	<i>HP Elective List (below)</i>	
	SAR HS 791	Directed Study and Research (MS course)	SAR HS 791	Directed Study and Research (MS course)	

A Sample of Elective Options

- SAR HS 331 Physiology of Sex and Human Reproduction (Spring) *undergraduate level*
- SAR HS 341 Physiology Across the Lifespan (Fall) *undergraduate level*
- SAR HS 362 Muscle Physiology (Spring) *undergraduate level*
- SAR HS 370 Neuroanatomy and Neurophysiology (Spring) *undergraduate level*
- SAR HS 371 Pulmonary Pathophysiology (Spring) *undergraduate level*
- SAR HS 375 Cardiovascular Pathophysiology (Fall) *undergraduate level*
- CAS BI 520 Sensory Neurobiology (Fall)
- SAR HS 534 Physiology of Sex and Human Reproduction (Spring) *graduate level*
- SAR HS 541 Physiology Across the Lifespan (Fall) *graduate level*
- SAR HS 550 Neural Systems (Spring) *graduate level*
- SAR HS 572 Pulmonary Pathophysiology (Spring) *graduate level*
- SAR HS 575 Cardiovascular Pathophysiology (Fall) *graduate level*
- CAS BI 576 Carcinogenesis (Spring)
- SAR HS 582 Neuroanatomy and Neurophysiology (Spring) *graduate level*
- SAR HS 592 Muscle Physiology (Spring) *graduate level*
- GRS BI 645 Cellular and Molecular Neurophysiology (Fall)
- GRS BI 681 Molecular Biology of the Neuron (Spring)
- SAR HS 710 Graduate Field Experience: Human Physiology (Fall or Spring)
- GRS BI 735 Advanced Cell Biology (Fall)
- SAR HS 745 Advanced Regional Anatomy (Fall or Spring)
- SAR HS 755 Readings in Neuroscience (Spring)
- GRS BI 755 Cellular and Systems Neuroscience (Fall)

II. Special Opportunities

Senior Thesis for Distinction

The [Senior Thesis for Distinction](#) is an opportunity for undergraduate seniors enrolled in the College of Health and Rehabilitation Sciences: Sargent College to complete an in-depth research experience within their major or minor field of study. **Students will work closely under the guidance of a faculty member who will lead them through their research project.** Successful completion of the Thesis will result in the designation of “graduation with distinction” appearing on the student’s diploma and transcript.

A minimum **Grade Point Average of 3.50 is required** to be eligible for submitting an application to participate in a Sargent Senior Thesis for Distinction project.

Detailed information can be found in the [Sargent Senior Thesis for Distinction Guidelines](#), or feel free to contact the [Association Dean of Academic Affairs, Dr. Gael Orsmond \(gorsmond@bu.edu\)](#).

Double Majors Within Sargent College

Students can pursue two undergraduate degrees within the same school, or in separate schools through the Boston University Dual Degree Program. Here are some policy considerations for double majors within Sargent College:

- Students must meet all requirements in both programs including GPA, all coursework (major and elective) and internships where applicable.
- Both degrees must be completed before the student can graduate from Boston University.
- Students must complete no fewer than 36 courses (144 credits) for a double major.
- To apply, students must complete their 1st year with a grade point average of 3.0 or higher.
 - Applications can be made during the first or second semester of their 2nd year or by the first semester of their 3rd year (at least 3 semesters of enrollment are required).
- Students must meet with Erin Phair (ekp@bu.edu) our academic counselor and SAR Dual Degree program coordinator (Sargent, room 105).
- The application will then be reviewed by academic advisors who have knowledge of both programs.
- As part of the application, an essay (one-page, typed) must be submitted that describes why the double major is academically beneficial. Dual Degree Program
 - Applications may be downloaded online via link: <https://www.bu.edu/academics/policies/dual-degree-program/>

Dean’s List

Full-time students are named to the Dean’s List for excellence of scholarship upon achieving a grade point index of 3.5 in any one semester with no incomplete grades. At least 12 credits of coursework with letter grades (not pass/fail) are needed for a student to be eligible for the Dean’s list.

III. Special Circumstances

Deviations from Program Course Requirements

A student may petition the Human Physiology faculty for waiver or substitution of program requirements. Petitions should be submitted using the [student petition form](#).

Requests for variance from the usual academic or curricular requirements, to include:

- Transfer of credit from another college or university
- Waiver of a course based upon prior coursework or experience, to include permission for competency testing
- Course substitution or the determination of course equivalence
- Waiver of department course prerequisite or corequisite
- Waiver of academic standard

Once a petition has been filed:

- The advisor, at their discretion, may act on petitions seeking: i) course transfer, ii) course waiver, iii) course substitution. When relevant, concurrence with the involved course instructor(s) or program director is required.
- The Program faculty will always receive directly from the advisor any petitions having to do with waiver of an academic requirement, or any variances whose approval would be precedent-setting or *de facto* policy formation and will consider such petitions and present its recommendation to the faculty for vote.
- Petitions will be signed by the advisor or delegate. This may be the advisor, the program director, or the chairperson of the Health Sciences Department.
- All petitions and any supporting documents, whether approved or denied, will be filed in the student's permanent College record.

Students who seek a variance of departmental policy or regulation or who have a grievance with an instructor or a departmental judgment must attempt to resolve the situation in the department with the individual instructor, the department chairman or by petition to the department academic standards committee.

If the student is not satisfied with the reconsideration of the department as outlined, the student may petition the Committee on Academic Policies and Procedures. The Sargent (SAR/CAPP) Committee will consider petitions that involve academic standards and policies if students have pertinent additional information not previously presented; if there are extenuating circumstances that justify deviation from, or exception to, stated rules; or if students feel that the departmental committee or a faculty member has not dealt with them in a fair manner.

Petitions to SAR/CAPP to reconsider academic or disciplinary actions against a student must be submitted for such consideration **no later than two weeks** after the student has been notified of the departmental action. SAR/CAPP will inform the student of the scheduled hearing date. The student will be requested to submit all pertinent materials to the Committee in advance of the hearing. The student has the right to present his/her case in person if so desired. The Committee may request the



attendance of other individuals who may speak to the issue(s) under consideration. A verbatim transcript of the hearing may be requested by the Committee and will be made available to the student upon request. The student will be notified of the Committee's findings in writing within five days after the hearing.

If the student is not satisfied with the decision of SAR/CAPP, the student may petition the dean of the college for reconsideration. All academic conduct and standards cases are subject to the review and final determination, including determination of sanction, by the provost of Boston University or his or her designated representative.

Students may petition SAR/CAPP to consider non-academic issues such as charges of discrimination or sexual harassment by faculty, staff or students. Students are urged to seek redress within the appropriate department(s) whenever possible, but SAR/CAPP will hear unresolved issues, or those, which might cross departmental lines. As in all cases, due process as described by the Boston University Code of Student Responsibilities will be followed.

Good Standing

Full-time students maintain good academic standing when they achieve all three of the following: (1) earn at least 12 academic credits in the semester just completed; (2) earn a semester GPI of at least 2.00; and (3) maintain a cumulative GPA of at least 2.00. [Note: Academic credits do not include PDP (Physical Education and Dance) credits. Grades for transfer credits are not counted in the GPA.]

Academic Probation

A student is put on Academic Probation when they are in danger of not making sufficient academic progress toward their degree, having fallen below a 2.00 GPI or GPA or not completed 12 credits in a semester. A student notified of being placed on Academic Probation should make an appointment with an assistant director of Academic Services to discuss these procedures by calling 617-353-2713 or by coming to the Academic Services office at Sargent College to request an appointment.

Students are reviewed after one semester on Academic Probation. Those who earn a GPI and GPA of 2.00 or above and complete 12 credits during the probationary semester will return to Good Standing. Those students who do not achieve Good Standing (as defined above) during the probationary semester will move to Academic Suspension, Dismissal, or a second semester of Academic Probation, as determined by the school or college of enrollment. Students can be on Academic Probation for no more than two consecutive semesters. Academic Probation does not prohibit students from participating in extracurricular activities or intercollegiate athletics.

Students currently on Academic Probation who have completed Boston University summer courses may request a review of their academic standing at the end of the summer session. Such a review would combine the summer session and the student's previous semester of enrollment for the purposes of satisfying the credit threshold requirement related to Good Standing and for calculating the GPI and GPA.

Academic Suspension

A student faces Academic Suspension when they have spent one or two semesters on Probation and have not achieved Good Standing (as defined above) in the most recent semester of Academic Probation. Specifics regarding the duration and terms of the Academic Suspension will be determined by Sargent College on a case-by-case basis. Final appeals of Suspension are directed to the Dean of Sargent College.

Reinstatement After Suspension

Students who have fulfilled their period of Academic Suspension must meet with their academic advisor and must also reestablish their standing in the Sargent College by contacting the Assistant Dean of Academic Services, Sharon Sankey. Students are reinstated to a probationary standing.

Dismissal

A student faces Dismissal if they have spent one or two semesters on Probation and have not achieved a GPI and GPA of 2.00 and completed 12 credits in the most recent semester of Academic Probation. A student also faces Dismissal if they have spent at least one semester on Suspension and have not fulfilled the terms of the Suspension. Decisions on Dismissal are made by the individual school or college on a case-by-case basis. Dismissal results in permanent separation from the University. Appeals of Dismissal are directed to the dean of the school or college of enrollment.



First-Year Program Changes and Transfers

First-year students who wish to change programs during their fall semester at Boston University must first meet with **Heather Nicholson** to discuss the requirements of the target program. Because it is very helpful for everyone involved in the decision-making process to have the first semester grades for first-year students, the following guidelines are proposed.

- First-Year students who have been admitted into a specific program may transfer into new programs only after a full semester at BU.
- First-Year students who have been admitted into the Undeclared program can declare a major only after they have completed a full semester at Boston University.
- Students who become interested in changing majors during the fall semester will be encouraged to register for spring semester coursework in the target major rather than the admitted major.
- Students who have not yet met the transfer requirements, will still be allowed to take crucial freshman spring courses so that they don't fall behind in the curriculum requirements.

Any time after the fall of a student's 1st year, students who decide to change programs or transfer into Sargent College, BU may begin the process by meeting with one of the academic counselors, Heather Nicholson (inside SAR transfers), Roslyn Abukasis (CGS transfers) or Erin K. Phair (intra-university and outside BU transfers).

Courses Taken Outside Sargent College

Matters relating to a course taken by a student in a school or college other than the one in which the student is enrolled are subject to the determination of the school or college in which the course is offered. Disciplinary or academic actions against a Sargent student by other segments of the University will be reviewed by SAR/CAPP. SAR/CAPP will then recommend its decision to the Dean of Sargent College.

IV. Standards & Procedures

Sargent College has a commitment to excellence in the education of Health and Rehabilitation Professionals. Individually and collectively, those associated with Sargent are responsible for maintaining and promoting those ethical standards below:

Academic Honesty

Sargent College of Health and Rehabilitation Sciences is committed to creating an intellectual community in which both faculty and students participate in the free and uncompromising pursuit of learning. This is possible only in an atmosphere of mutual trust where the discovery and communication of truth are marked by scrupulous, unqualified honesty. The college expects all students to adhere strictly to the accepted norms of intellectual honesty in their academic and clinical work. It is the responsibility of the student to abide by the Sargent College Academic Conduct Code that is distributed annually to each student at the college. <https://www.bu.edu/academics/policies/academic-conduct-code/>

Attendance

Students are expected to attend each class session unless they have a valid reason for being absent. Students may be required at any time to account for undue irregularity in attendance, either by personal explanation to their faculty advisor or dean or by written statement from a parent or another authority. Any student who has been excessively absent from a course may be required to withdraw from that course without credit. Students who expect to be absent from class for more than five days should notify their dean promptly.

Absence for Religious Reasons

- Religious Holidays: According to Chapter 151C of the General Laws, Commonwealth of Massachusetts, any student in an educational or vocational training institution, other than a religious or denominational educational or vocational training institution, who is unable, because of his or her religious beliefs, to attend classes or to participate in any examination, study, or work requirements on a particular day, shall be excused from any such examination or study or work requirement, and shall be provided with an opportunity to make up such examination, study, or work requirement that may have been missed because of such absence on any particular day; provided, however, that such makeup examination or work shall not create an unreasonable burden upon such school.
- Students are permitted to be absent from class, including classes involving examinations, labs, excursions, and other special events, for purposes of religious observance. Class and other work shall be made up in consultation with the student's instructors. All religious observances, within all religious traditions, are subject to this accommodation. You are encouraged to seek out services at Boston University or in the Boston metropolitan area. Marsh Chapel <http://www.bu.edu/chapel/life/index.html> is an excellent source of information about local

services. A list of religious groups currently active on campus may be found at the [Religious Life](#) link on the University's website.

- To that end, please identify potential schedule conflicts with religious observances (class attendance, exams, assignment due dates) *very early in the semester* and communicate these to the course instructor. We will arrange mutually acceptable alternative arrangements for class work and examinations that is equivalent to the original examination, assignment, or other academic exercise. This could be the same work with a different due date, or a substantially similar exercise at another time. To avoid misunderstandings, the agreed-upon arrangement should be put in writing. If, after discussion, the instructor and student cannot agree on an accommodation, the advice of the college Dean's office should be sought.
- If you would like advice or counsel about religious observance, you may call or email the Dean of Marsh Chapel (Robert Allan Hill, 617-358-3394, rahill@bu.edu) or the Director of Marsh Chapel (Raymond Bouchard, 617-358-3390, dymphna@bu.edu) for help in the administration of this policy.

Disability Accommodations

Boston University provides reasonable accommodations to eligible individuals with disabilities in conformance with Section 504 of the Rehabilitation Act of 1973 and with the Americans with Disabilities Act of 1990. Requests for disability accommodations must be made in a timely fashion to the Office of Disability Services, 19 Deerfield Street, Boston, MA 02215; 617-353-3658 (Voice/TTY). Students seeking accommodations must submit appropriate medical documentation and comply with the policies and procedures of the Office of Disability Services. Please see also, <https://www.bu.edu/disability/accommodations/>

Filing a Complaint for an Issue Regarding Academic Internships Process for Filing a Complaint for an Issue Regarding Distance Education (including field placements, clinical rotations, and academic internships):

Boston University makes every attempt to resolve student complaints within its academic and administrative departments. Students should first attempt to resolve any concerns by utilizing existing University procedures.

The [BU Compliance website](#) and the [Academic Bulletin](#) provide information about ways that students and prospective students can report concerns and utilize University complaint procedures. The Massachusetts Department of Higher Education, in its capacity as the State Authorization Reciprocity Agreement (SARA) portal entity for Massachusetts, reviews and evaluates student complaints regarding distance education activities offered by Boston University in accordance with 610 CMR 12.07.

If an issue regarding distance education cannot be resolved internally, please see the [process here](#).

V. Full-Time Faculty & Staff in Human Physiology

Faculty

Dustin Allen, PhD

Clinical Assistant Professor & Program Director,
Pulmonary Physiology, Exercise Physiology, & Education

Helen Barbas, PhD

Professor,
Neuroscience & Organization of Prefrontal Cortex

Sarah Barnes, PhD

Lecturer,
Immunology & Physiology

Jesse Moreira, PhD

Clinical Assistant Professor,
Cardiovascular Physiology & Education

Kelley Pesanelli, PT, MSPT

Senior Lecturer,
Physical Therapy & Healthcare

Lisa Roberts, PhD

Lecturer,
Muscle Physiology, Anatomy, Education

Vasileios Zikopoulos, PhD

Associate Professor,
Neuroscience, Organization of Prefrontal Cortex in Autism

Staff

Danuta (Danka) Charland, PhD, MCJ, CAGS

Pre-Health Academic Advisor

Alexandra Shute, MPH

Senior Program Coordinator



Research Faculty Affiliated with Human Physiology

[Christina M. Dieli-Conwright, PhD, MPH, CACSM, CSCS](#)

[Jingyan Han, PhD, \(BUMED\)](#)

[Claus Hilgetag, PhD](#)

[Deepak Kumar, PT, PhD \(BU, SAR\)](#)

[Cara Lewis, PT, PhD \(BU, SAR\)](#)

[Brandon Roberts, PhD \(USARIEM\)](#)

[LaDora Thompson, PhD \(BU, SAR\)](#)

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