Introduction

The School of Health Sciences and Human Performance (HSHP) educates students to participate in the health, health care, leisure, and sport continuum. Health and physical education programs provide students with the background, understanding, and experience for teaching healthy lifestyles. Students in exercise science programs learn to use exercise as a modality to safely guide children and adults — whether they are well, at-risk, or have diseases — to an improved level of physical function. Athletic training students are prepared to manage and rehabilitate injuries that may result from exercise or sport participation. Prevention of and recovery from injury, trauma, or disease are aided by our physical therapy students who learn to help people become strong and flexible; occupational therapy students who learn to help people gain function and engage in occupations of daily life; recreational therapy students who learn to help people lead a better quality of life; and speech language pathology students who learn to help people improve or regain speech, language, or voice in both school and community settings. Adding to the continuum are three other degree programs, where students learn to help shape the policies that affect health and health care on a local and global level, to help manage and promote the world of sport, and to help people plan and use their leisure time in meaningful ways.

The strength of these programs comes from a dedicated faculty who believe in and practice their areas of expertise and who fully support the integration of the liberal arts and sciences in their professional programs. Students have the flexibility to elect courses in areas other than their majors, with the option of declaring a minor from a variety of programs at Ithaca College. Most programs require students to learn in the work environment, and many offer experiential learning opportunities on campus as well as off campus.

Diversity:
The School of Health Sciences and Human Performance is committed to increasing diversity among faculty, staff, and students. Seventy percent of the class of 2007 is from minority groups. With the recent hiring of faculty of color, we have increased the percentage of diversity among faculty to a figure greater than in the HSHP student body. Diversity, however, is more than numbers. The interdisciplinary course HINT-31300 Health Care and Culture explores cultural dimensions of health from the client and provider perspectives. PT students are in a pilot project that allows them to participate in a course on multicultural psychology. Our health policy studies program is working with other units at the College to develop a yearlong academic enrichment program with a theme of politics, race, culture, and health. Our sport management and media department offers such courses as SPMM-29800 Gender Issues in Sport with a theme of politics, race, culture, and health. Our sport management and media department offers courses such as SPMM-29800 Gender Issues in Sport and SPMM-40700 Sport and the Civil Rights Movement. Our TRLS majors are required to complete a course entitled TRLS-34000 Inclusive Community Services. Our SLPA department offers diversity courses, including courses on communication disorders in multicultural and geriatric populations. Students from all majors are encouraged to explore these options.

ACADEMIC PROGRAMS AND OPTIONS

Majors

B.S. Athletic Training, p. 55
B.S. Clinical Exercise Science, p. 56
B.S. Clinical Science, p. 92*
B.S./M.S. Clinical Science/Physical Therapy, five-year program, p. 93;
for additional details, see also the Ithaca College graduate catalog, www.ithaca.edu/catalogs*
B.S./D.P.T. Clinical Health Studies/Physical Therapy, six-year program, p. 93;
for additional details, see also the Ithaca College graduate catalog, www.ithaca.edu/catalogs
B.S. Community Health Education, p. 67
B.S. Exercise Science, p. 57
B.S. Health Care Management, p. 75
B.A. Health Policy Studies, p. 74
B.S. Health Sciences, p. 68
B.S. Occupational Science, p. 83
B.S./M.S. Occupational Science/Occupational Therapy, five-year program, p. 83;
see also the Ithaca College graduate catalog, www.ithaca.edu/catalogs
B.S. Outdoor Adventure Leadership, p. 105
B.S. Recreation Management, p. 106
B.S. Speech-Language Pathology, p. 97
M.S. Speech-Language Pathology, see the Ithaca College graduate catalog, www.ithaca.edu/catalogs
B.S. Sport Management, p. 99
M.S. Sport Management; see the Ithaca College graduate catalog, www.ithaca.edu/catalogs
Academic Programs and Options

B.S. Sport Media, p. 100  
B.S. Sports Information and Communication*, p. 101  
B.A. Sport Studies, p. 102  
B.S. Therapeutic Recreation, p. 107  

Teacher Education Programs  
B.S. Health Education (teaching), p. 64  
B.S. Health Education and Physical Education (teaching), p. 66  
B.S. Physical Education (teaching), p. 63  
M.S. Health Education (teaching); see the Ithaca College graduate catalog, www.ithaca.edu/catalogs  
M.S. Physical Education (teaching); see the Ithaca College graduate catalog, www.ithaca.edu/catalogs  
M.S. Teaching Students with Speech and Language Disabilities; see the Ithaca College graduate catalog, www.ithaca.edu/catalogs  

* No new students accepted

Health Sciences Preprofessional — Freshmen and Sophomores Only  
As an alternative to being admitted to one of the professional majors, a student may be admitted to preprofessional status in the School of Health Sciences and Human Performance. This admission and advising category is offered for students who are interested in a career related to health, health care, sport, or leisure, but are uncertain of the professional major they want to pursue. It is, therefore, a temporary classification only. Students are strongly advised to gain admission to a major before registration for their fourth semester, and they must be admitted to a major at the College before their junior year. To ensure meeting these deadlines, students should begin their efforts to decide on a major considerably earlier. For more information contact Julie Boles, faculty coordinator, Office of Preprofessional Studies, 607-274-3711, or see www.ithaca.edu/hshp.

Minors  
Coaching — For majors in all disciplines except physical education and health education and physical education, p. 69.  
Communication Disorders (Dept. of Speech-Language Pathology) — For majors in all disciplines except speech-language pathology, p. 97.  
Exercise Science — For majors in all disciplines except exercise science, clinical exercise science, and athletic training, p. 60.  
Health — For majors in all disciplines except community health education, health education, and health education and physical education, p. 70.  
Health Services Administration — For majors in all disciplines except health services administration and health care management, p. 76.  
Integrative Health Studies — For majors in all disciplines, p. 76.  
Nutrition Promotion — For majors in all disciplines except community health education, health education, and health education and physical education. Students in health education or health education and physical education may complete a concentration in nutrition promotion by following the requirements of this minor, p. 70.  
Nutrition Science — For majors in all disciplines except community health education, health education, and health education and physical education. Students in health education or health education and physical education may complete a concentration in nutrition science by following the requirements of this minor, p. 70.  
Outdoor Recreation — For majors in all disciplines except outdoor adventure leadership, recreation management, and therapeutic recreation, p. 103.  
Recreation — For majors in all disciplines except outdoor adventure leadership, recreation management, and therapeutic recreation, p. 103.  
Sport and Exercise Psychology — For majors in all disciplines except those in the exercise science-sport and exercise psychology concentration, p. 60.  
Sport Studies — For majors in all disciplines except sport management, sport media, and sport studies, p. 103.  
Concentrations  
Nutrition — Open only to community health education majors, p. 68.  
Nutrition Promotion — Open only to health education and health education and physical education majors; see nutrition promotion minor, p. 70.  
Nutrition Science — Open only to health education and health education and physical education majors; see nutrition science minor, p. 70.  

Sport and Exercise Psychology — Open only to exercise science majors, p. 58.  

Applications for the above minors and concentrations are available in the appropriate departmental office. Students who have majors in the school and are interested in completing any of these programs should work closely with their adviser and department chair to ensure timely graduation. Students considering a minor or concentration must abide by College policies and regulations for these programs.  

In accordance with College regulations that relate specifically to minors, all departments in HSHP have determined that a course that is a requirement in a student’s major and also a requirement in one of the above minors may count for credit to meet the requirements of both the major and the minor.  

Teacher education students in any major may also apply for coaching certification.  

Physical Activity, Leisure, and Safety  
The School of Health Sciences and Human Performance maintains the physical activity, leisure, and safety (PALS) program, which offers a broad spectrum of skill courses designed to provide students with instruction at beginner, intermediate, and advanced levels in physical activities that meet individual student interests and needs. Majors and nonmajors are encouraged to participate in PALS. See p. 78 for a complete list of PALS offerings.  

Participation in activity classes, intramural and club sports, or intercollegiate athletics requires clearance from the Hammond Health Center. Because many activity courses are required in physical education, medical clearance is required for this major. If a student cannot be cleared by the health center for a variety of activities, he or she will not be able to complete the requirements for these degrees.  

Special Courses of Study in Other Schools Available to HSHP Majors  
Numerous programs, within HSHP and in other schools, assist HSHP majors to prepare themselves for extended vocational or avocational opportunities. A complete list of minors is given on p. 12.  

Liberal Arts (LA) and General Education Designations  
The specific requirements for HSHP majors are described in the sections on those programs. Liberal arts (LA) distribution categories are as follows: fine and performing arts (FA), humanities (HU), natural science and mathematics (NS), and social and behavioral sciences (SS). More than 30 HSHP courses with H&S general education requirements are designated as 1, 2a, 2b, 3a, 3b, and g or h. See p. 114 or visit www.ithaca.edu/hs/h suppl ement. These codes are included in the Undergraduate Course Offerings each semester and in this catalog.  

International Study  
HSHP students are encouraged to pursue international study. One option is the College’s London Center, which features a seminar on the national health system in Great Britain and offers social service internships in health administration. In addition, the London Center offers a variety of courses in sport management and media during the school year and summer. Other options for international study include HINT-31300 Health Care and Culture: An International Field Experience and TRLS-27700 Ecotourism and Natural Resource Management. Students should consult with their faculty advisers well in advance to ensure that study abroad is scheduled as compatibly as possible with their professional courses at Ithaca and that they have established an adequate foundation for it through their Ithaca work. The staff of the Office of International Programs, 214 Center for Health Sciences, is also available to assist students in their planning.  

Application for Internship  
Experiential Learning  
Many of the programs in the School of Health Sciences and Human Performance have degree requirements in which students must complete one or more field-based experiences. In all instances students will work with a faculty member to select and arrange appropriate experiences. Students are responsible for the cost and arrangement of transportation and housing associated with their placement. The Office of Experiential Learning, 322B, serves to coordinate contractual arrangements with sites, as well as insurance billing. Specific departmental requirements are as follows:  

Department of Exercise and Sport Sciences, Department of Health Promotion and Physical Education, and Department of Sport Management and Media — Students who wish to intern at specific agencies any time during the school year must file an application and receive approval
from their major department prior to beginning the experience. Credit for time spent at an agency will not be given retroactively to students who have not received approval for or enrolled in an internship experience.

**Department of Occupational Therapy and Department of Physical Therapy** — Students in the degree programs of occupational science/occupational therapy and clinical health studies/physical therapy are assigned to clinical fieldwork and affiliation sites across the country at various points in their academic careers. These placements meet college accreditation and professional preparation requirements of the Accreditation Commission for Occupational Therapy Education (ACOTE) and the Commission for Accreditation in Physical Therapy Education (CAPTE). The College maintains contractual relationships with these clinical sites, and students are assigned to sites based on departmental policies and space availability.

**Department of Speech-Language Pathology and Audiology** — Students complete a field-based experience during the senior year. Many are placed in the Sir Alexander Ewing—Ithaca College Speech and Hearing Clinic for supervised practicum in speech, language, and voice therapy delivery. Others may be placed at external sites in the community for their supervised practicum.

**Department of Therapeutic Recreation and Leisure Services** — To secure approval to complete an internship, students must submit an application for internship form to the internship coordinator for their major. Students must meet minimum academic requirements as noted in the description of the program of study for their major. Internship placements meet professional preparation standards of the National Recreation and Park Association and the American Association for Leisure and Recreation Council on Accreditation, as well as the certification requirements of the National Council for Therapeutic Recreation Certification and the National Recreation and Park Association. Refer to p. 108 for further information on the professional practicum.

**Course Offerings**

In addition to the courses listed in this catalog, others may be offered on an experimental basis. Details of such courses are given in the Undergraduate Course Offerings for the semester in which they are offered. Students should consult the registrar’s website for specific information on the schedule of all courses each semester.

Unless otherwise designated, courses are open to all Ithaca College students on a space-available basis, provided that the prerequisites for the course have been met.

Coaching seminars and physical education professional skill courses are identified by course number and title only.

**Professional Eligibility**

Many of the programs in the School of Health Sciences and Human Performance lead to professional licensure and/or certification. Because these credentialing processes are designed to protect the public from practitioners who are unqualified, unscrupulous, or unable to perform professional services adequately, credentialing agencies may bar individuals from subsequent credentials and/or practice. Activities that may exclude students from licensure and/or certification include, but are not limited to,

1) conviction of, plea of guilty to, or plea of no contest (nolo contendere) to a felony or misdemeanor related to professional practice or public health or safety; or

2) any physical, mental, or dependency condition that will or may interfere with the ability to practice the designated specialty.

Students should check with the relevant licensing or certifying agencies for requirements in this area early in their academic careers.

**POLICIES AND PROCEDURES**

**Dean’s List**

At the end of each semester, students who have shown outstanding academic achievement are placed on the dean's list. To be included on the dean's list in HSHP, a student must

1. Earn a minimum grade point average of 3.50,
2. Pass a minimum of 15 credit hours,
3. Pass a minimum of 12 letter-graded credit hours,
4. Have no grades below C- and no incompletes, and
5. End the term in good standing in his or her major.

Students registered for more than 4 credits of student teaching, internship, fieldwork, or clinical education are not eligible for the dean’s list for that semester.

**HSHP Undergraduate Course Grade Appeal Policy**

The School of Health Sciences and Human Performance follows the general Ithaca College policy on grade disputes and students’ right to petition found in this catalog (see p. 297). Each student assumes responsibility for presenting all the facts and circumstances concerning a grade appeal. The procedures for an HSHP undergraduate course grade appeal can be found at www.ithaca.edu/hshpsearch/grade_appeal.htm.

**Academic Status Policy**

The general academic status policy of the School of Health Sciences and Human Performance follows the College guidelines for warning, suspension, and dismissal as set forth in this catalog (p. 284). To meet minimum College academic standards, a student must maintain at least a 2.00 cumulative GPA and pass at least 24 credits of coursework in any consecutive 12-month period. (The latter criterion does not apply to students approved for part-time study.) This policy applies to all students in the school, in addition to other standards specifically established by individual programs. Special academic status policies exist for most majors in HSHP.

**Academic warning**

A student who fails to meet any of the minimum GPA and credit-hour standards stated above and who is not suspended or dismissed will be placed on academic warning. Any student returning to the College after suspension or dismissal for academic reasons will also have this warning status for the first semester of reinstatement.

A student on warning must earn removal from this status by meeting all of the minimum requirements at the end of the following semester. Where a grade deficiency exists, the student must attain a semester GPA sufficiently above the 2.00 standard to result in a cumulative GPA of at least 2.00 by the end of the following semester.

**Suspension and dismissal**

Failure to meet the standards necessary for removal from warning after one semester will render the student subject to suspension or dismissal from both the School of Health Sciences and Human Performance and Ithaca College. After an official warning, a student may be dismissed from a degree program for failure to make satisfactory progress toward degree completion. Such a student may be admitted to another degree program in the school or College and has one semester in which to become enrolled in another major or be subject to suspension from the College.

A student will be suspended (rather than dismissed) only when it appears reasonably likely that previous weaknesses will be remedied and minimum requirements will be attained through the student’s successful completion of prescribed remedial measures during suspension. A suspended student is eligible to resume academic work in the school only at the time and under the conditions specified in his or her letter of suspension.

A student who is dismissed by HSHP will not be readmitted to one of the school’s programs under any circumstances.

**Attendance Policy**

The College’s policy regarding attendance (see p. 295) applies to students’ class absences in the School of Health Sciences and Human Performance. Professors, however, have discretion in interpreting and implementing this policy. Students who wish to participate in extracurricular or cocurricular activities that may necessitate absence from class should discuss the possibility of absences with their instructor at the beginning of the semester. The course syllabus should be consulted for the attendance policy of a particular class. Students should be certain that they fully understand each instructor’s position on absence from classes.

**Transfer into the School of Health Sciences and Human Performance**

Both internal and external transfer applicants are selectively admitted into HSHP. A number of community colleges have transfer agreements with departments in the school. All students intending to transfer should first contact the department in which their intended major is offered. Those transferring from another Ithaca College department must meet with the appropriate HSHP department chair. Students from other institutions are encouraged to call an HSHP faculty member to arrange for a similar meeting when they visit the College. Satisfactory academic performance is the major requirement for acceptance. Upon request, a list of courses recommended for potential transfer students is available from the chair of each department.
General requirements for internal and external transfer

The following requirements must be met by students transferring from within Ithaca College. Students transferring from other institutions must satisfy these requirements in addition to the requirements for admission to Ithaca College.

1. The professional requirements in most programs in HSHP demand a precise sequencing of courses. For this reason, early transfer into a program is encouraged. A late transfer may require a student to attend summer sessions or defer graduation. Ithaca College students who wish to transfer into any particular department may obtain a change of major/school form in the dean's office.

2. To be admitted to a department in HSHP, it is generally required that the student have a cumulative GPA of at least 2.00 and have completed at least 24 credit hours in the preceding 12 months. However, most degree programs are much more competitive than this.

Specific departmental transfer requirements for the following programs exceed the general requirements:

Exercise and Sport Sciences — For the athletic training major or the clinical exercise science major, an Ithaca College student must have a cumulative GPA of at least 2.75 or 2.50, respectively. Additionally, the student must have a minimum GPA of 3.00 or 2.75, respectively, in the specific requirements of the major and selected exercise science courses that have been completed by that time, with no grade below C- in any of those courses. Transfer into athletic training is limited to available openings and is highly competitive. Students must transfer initially into the exercise science major. Upon completion of required sophomore courses, the student is reviewed for admission into the athletic training science major. Sophomore review criteria are detailed on p. 55.

Health Promotion and Physical Education — Admission to the following majors requires a cumulative GPA of at least 2.50: community health education, health education, health education and physical education, and physical education. Additionally, these majors require a 2.75 average in selected core courses specified in applicable academic status policies, with no grade below C in any of these courses. In the health policy studies program, a minimum cumulative GPA of 2.30 is required; also required is a C or better in WRTC-10600 Academic Writing I and MATH-10500 Mathematics for Decision Making or minimum SAT scores of 500 each for the math and verbal components.

Occupational Therapy — Internal and external transfer applicants are considered for entry after the first semester of the freshman year and as late as the end of the second semester of the sophomore year. Applicants seeking transfer into the occupational science/occupational therapy program should have a 2.70 minimum GPA, or grades of C or better in all sciences courses, including biology and chemistry. They should have completed a total of 36 credits applicable to the occupational science degree or be in a position to do so by the end of the fourth semester. Early transfer is encouraged. Students transferring at the end of the sophomore year must have completed all coursework and be eligible to register for the required junior-level courses outlined in the program curriculum guideline. Students interested in transferring into the department are encouraged to contact the department for an advising appointment as early as possible to receive a list of specific prerequisite courses and assistance in academic planning.

Physical Therapy — Internal and external transfer applicants are considered for entry after the first semester of the freshman year and as late as the end of the second semester of the sophomore year. Applicants seeking to transfer into the clinical health studies/physical therapy program (D.P.T.) should have a minimum cumulative GPA of 3.00 and a 3.00 or better in natural science coursework. Students must be in a position to complete all specified prerequisites by the end of the fourth semester. Prerequisites include 8 credits each in biology for science majors, chemistry for science majors, and physics, and 3 credits of anatomy. Applicants must also be in a position to complete all general education requirements (27–39 credits). Details of the general education requirements may be found in the curriculum online on p. 93. Specific information on transfer admission requirements — including requirements relating to nonnative speakers, letters of recommendation, and clinical experience — is available from the Office of Admission or the physical therapy department website.

Speech-Language Pathology and Audiology — Requirements for transfer into this department include a minimum cumulative GPA of 2.50 and no grade below C- in any speech-language pathology and audiology course completed. Transfer after the first semester of the sophomore year may extend the student's program of study by at least one year.

Sport Management and Media — Students planning to transfer into either sport management or sport media, when openings are available, should have at least a 2.75 cumulative GPA. Sport management applicants should demonstrate proficiency in mathematics; sport media applicants should demonstrate proficiency in writing. Transfer into sport management, sport media, and sport studies is limited to available openings and is highly competitive.

Therapeutic Recreation and Leisure Services — Applicants seeking transfer into this department should have at least a 2.50 cumulative GPA and no grade below C- in any course offered by the department. Acceptance to these programs is also based on a composite of other factors, including interest, proficiency, practical experience, and leadership potential in the leisure, recreation, and park profession. Internal and external transfer applicants are considered for entry as late as the end of the second semester of the sophomore year. Earlier transfer is encouraged to facilitate timely graduation. Exceptions to this policy may be granted at the discretion of the chair.

Transfer Credit for Occasional Study at Another Institution

HSHP students may take courses at another accredited college or university for transfer credit, provided prior written permission for the credit has been obtained. Petition forms for transfer credit are available at the registrar's office and must be fully completed, submitted, and approved to secure such credit. Regulations on transfer credit are given on p. 297.

Students who consider taking courses elsewhere should be aware that their last 30 credits must be taken at Ithaca College. This requirement is waived only in very special circumstances. Regulations concerning the petition for waiver of the senior credit requirement are given on p. 292.

ADDITIONAL COSTS

The curricula of most degree programs in the school involve expenses not covered by tuition for the academic year. These may include the cost of summer tuition, liability insurance, books, off-campus housing, transportation, and equipment. Such costs apply to summer internships, which may be elected by students in clinical exercise science, exercise science, outdoor adventure leadership, recreation management, sport management, sport media, and therapeutic recreation.

- Athletic training majors must pay for malpractice liability insurance as juniors and seniors, as must some interns in clinical exercise science.
- Clinical health studies/physical therapy (D.P.T.) majors must pay tuition, room, board, and other expenses associated with 8 credits of coursework taken in Rochester, New York, during the summer prior to the senior (fourth) year. They must pay additional tuition for 4 credits of clinical affiliation during the summer following the senior year and 8 credits of clinical affiliation during the summer at the end of the final year, in addition to other associated costs for each clinical affiliation (room, board, transportation, and liability insurance).
- Health policy studies majors must pay tuition, room, board, and other expenses associated with the summer internship following the junior year.
- Health education and physical education students must pay room, board, and other expenses associated with student teaching placements.
- Health science and community health education students must pay room, board, and other expenses associated with internships and internships.
- Occupational science/occupational therapy majors must pay tuition, room, board, and other expenses associated with 6 credits of coursework taken in Rochester, New York, during the summer following the junior (third) year. Occupational therapy majors must pay additional tuition for 6 credits of fieldwork during the summer before and 10 credits of fieldwork following coursework in the graduate year, and they are responsible for associated room, board, book, transportation, liability insurance, and other expenses. They are also responsible for the cost of transportation and liability insurance during practicums in their last two undergraduate years and during their graduate study and fieldwork.
- Speech-language pathology and audiology majors are required to furnish their own recorders for use in clinical work.
- Sport management and media students are responsible for transportation, housing, and all other costs associated with their internship and fieldwork placements.
- Outdoor adventure leadership, recreation management, and therapeutic recreation majors are responsible for the cost of liability insurance when enrolled in fieldwork and internship courses. Outdoor adventure leadership majors are encouraged to contact the department for an advising appointment as early as possible to receive a list of specific prerequisite courses and assistance in academic planning.

Additional Costs
majors are responsible for purchasing their personal outdoor gear (sleeping bag, backpack, stove, heavy-duty backpacking boots, fleece jacket and pants, breathable nylon rain gear, and compass). Occasionally, students are charged an additional one-time fee to cover course expenses related to equipment, facility rental, or travel.

For more information on student expenses, see p. 273.

GRADUATE PROGRAMS

In addition to the undergraduate degree programs offered by all of its academic departments, the school offers a variety of graduate opportunities.

- The five-year program in occupational science/occupational therapy awards a B.S. degree in occupational science at the end of the fourth year and an M.S. degree in occupational therapy at the end of the fifth year.
- The six-year program in clinical health studies/physical therapy awards a B.S. degree in clinical health studies at the end of the fourth year and a doctorate in physical therapy at the end of the sixth year.
- A graduate curriculum leading to an M.S. degree in exercise and sport sciences offers thesis and non-thesis options, with specialization possible for research-oriented or applied study in exercise physiology and sport psychology.
- Speech-language pathology majors may apply to continue their studies beyond the B.S. degree through the department’s M.S. degree programs in speech-language pathology and teaching students with speech and language disabilities.
- A graduate curriculum leading to an M.S. in physical education or an M.S. in health education offers thesis and non-thesis options.
- A graduate course of study leading to an M.S. in sport management offers thesis and non-thesis options.

For more information regarding these programs as well as the College’s other graduate programs, consult the Ithaca College graduate catalog, www.ithaca.edu/catalogs.

EXERCISE AND SPORT SCIENCES

John Sigg, Associate Professor and Chair

To prepare students to address society’s growing concerns about wellness, fitness, injury prevention, and rehabilitation, the Department of Exercise and Sport Sciences (ESS) offers three exercise science majors:

- Athletic training (below)
- Clinical exercise science (p. 56)
- Exercise science (p. 57)

With careful planning, a qualified student may complete a master of science (M.S.) degree with a fifth year of study in the department. Questions about the five-year M.S. degree plan of study should be directed to the graduate chair, department chair, or adviser.

B.S. in Athletic Training

An athletic trainer is responsible for the prevention, care, and management of athletic injuries. The degree program in athletic training (AT) addresses the national need for better care of athletes and the physically active. Certified athletic trainers work under the direction of physicians in many settings, including schools, colleges, professional sports programs, hospitals, fitness centers, industry, and sports medicine clinics.

The AT major is designed to prepare the student for the Board of Certification (BOC) national certification examination. Commission on Accreditation of Athletic Training Education (CAATE) standards and guidelines impose specific restrictions on the number of majors Ithaca College can enroll in the AT degree program. AT students applying for retention must sign an agreement that they will meet the program’s technical standards. Clarification regarding these standards can be obtained from the program director.

Special Academic Status Policy for AT

Retention requirements — sophomore review
At the end of the sophomore year, the student must apply to be formally reviewed for retention in or admission to the athletic training major. Retention or admission is based on the following criteria:

- Cumulative GPA of at least 2.75;
- Minimum GPA of 3.00 in athletic training courses EXSS-20000, EXSS-24000, EXSS-24700, EXSS-25000, EXSS-25100, and EXSS-25600, with no grade lower than C; in these courses;
- Completion of basic and applied science courses EXSS-12000, EXSS-121000, EXSS-12400, EXSS-22000, and EXSS-22100, with no grade lower than C;
- Completion of 60 hours in a clinical setting supervised by Ithaca College; and
- Completion of required athletic training competencies and proficiencies.

Retention or admission is competitive, based on an applicant’s level of achievement according to the stated criteria. Students should be aware that following a successful sophomore review, a minimum of 720 hours of clinical experience over a minimum of four additional semesters is required to complete the AT major. Because the clinical experience hours often coincide with athletic practice time, pursuit of the AT major may make participation in intercollegiate athletics at Ithaca College after the sophomore year more difficult and may require the completion of clinical experience hours outside the traditional academic calendar.

Junior and senior retention requirements
Retention in the AT program is based on the following criteria:

- Cumulative GPA of at least 2.75;
- GPA of at least 3.00 in all athletic training coursework (EXSS-20000, EXSS-24000, EXSS-24700, EXSS-25000, EXSS-251000, EXSS-25600, EXSS-30000, EXSS-30100, EXSS-34000, EXSS-34200, EXSS-35000, EXSS-35100, EXSS-36000, EXSS-36100, EXSS-36500, EXSS-40000, EXSS-40100, EXSS-43000, and EXSS-45500), with no grade lower than C;
- Minimum grade of C– in all remaining courses required by CAATE accreditation guidelines (HLTH-20200, EXSS-32100, EXSS-37500, and a psychology elective); and
- Satisfactory progress toward completion of a minimum of 720 supervised clinical hours in accordance with College specifications.

A student failing to meet the minimum standards in any given semester will be given one semester to attain them. Failure to meet standards for two consecutive semesters will result in dismissal from the AT major.

Requirements for the Major in Athletic Training — B.S.

General requirements
Computer science — a total of 3 credits to be selected from the following:
- COMP-xxxx Computer science elective or EXSS-13900 Computer Applications in Exercise and Sport 3

Statistics — a total of 3–4 credits to be selected from the following (students may be required to complete other mathematics courses prior to enrolling in these courses, depending on their scores on the math placement exam):
- PSYC-20700 Statistics in Psychology (4) or
- MATH-24400 Statistics with Probability (4) or
- MATH-14400 Business Statistics (4) or
- MATH-15500 Basic Statistical Reasoning (3)
- MATH-24300 Statistics (3) 3–4

Natural sciences
- BIOL-11900 Fundamentals of Biology or
- BIOL-12100 Principles of Biology 4

Humanities — courses from a minimum of two departments
- PHIL-21200 Introduction to Ethics or
- PHIL-23000 Bioethics 3
- Humanities electives 6
- Total 9

Communication skills
- SPCM-11200 Public Communication or
- SPCM-11500 Business and Professional Communication 3
- WRTG-10600 Academic Writing I or
- WRTG-11100 Academic Writing II 3
- WRTG-xxxx Writing elective 3
- Total 9

Exercise and Sport Sciences
agility, balance, and other aspects of sport fitness. Students will also be prepared to help those with functional deficits that persist following rehabilitation from injury or surgery. CES majors can choose to bring a specific focus to their study allowing a professional specialty to evolve that emphasizes corporate wellness, disease rehabilitation, youth fitness, fitness management, geriatric wellness, personal training, and strength and conditioning of athletes. Such an emphasis is structured by thoughtful use of elective coursework and experiential learning (i.e., fieldwork and internship). Careers our graduates assume range from working in clinical technology (e.g., pacemaker or MRI tech) to strength coaching professional athletes or managing wellness programs for Fortune 500 companies. The CES degree is flexible enough to allow the student to grow in a variety of related professional directions.

**Special Academic Status Policy for Clinical Exercise Science Majors**

Students in the clinical exercise science major are required to:

- Maintain a cumulative GPA of at least 2.50;
- Maintain a minimum GPA of 2.75 in all basic and applied sciences and all specific requirements; and
- Complete each of the required courses and restricted elective courses in the exercise and sport sciences department, except EXSS-16200, EXSS-27300, and internships, with a grade of at least C-. Failure to complete each of these courses with at least a C- mandates repeating the course. The Ithaca College policy on repeating courses stated in this catalog must be followed.

A student failing to meet these academic standards in any given semester will be given one semester to attain these standards. Failure to meet these standards in two consecutive semesters or any three semesters will result in dismissal from the major.

Enrollment in internship courses is dependent upon meeting the stated academic standards. Students who meet the minimum standards described above at the time of internship registration may enroll in EXSS-47300 Internship: Preventative Clinical Exercise Science. Students who achieve academic standards of at least a 3.00 GPA in the basic and applied sciences and all specific requirements and at least a 2.75 cumulative GPA may enroll in EXSS-47400 Internship: Rehabilitative Exercise Science.

**Requirements for the Major in Clinical Exercise Science — B.S.**

**General requirements**

- Computer Science — a total of 3 credits to be selected from the following:
  - COMP-xxxx
  - EXSS-13900 Computer Applications in Exercise and Sport (3)
- Mathematics — a total of 4 credits to be selected from the following students may be required to complete other mathematics courses before enrolling in these courses, depending on their scores on the math placement exam:
  - MATH-10700 Fundamentals of Applied Calculus (4) or
  - MATH-10800 Calculus for Decision Making (4) or
  - MATH1100 Calculus I (4)
- Statistics
  - MATH-15500 Basic Statistical Reasoning (may not be taken after MATH-10800 or MATH-11000) (3) or
  - MATH-24300 Statistics (3) or
  - MATH-24400 Statistics with Probability (4) or
  - PSYC-20700 Statistics in Psychology (4) 3–4

**Natural sciences**

- BIOL-11900 Fundamentals of Biology or
- BIOL-12100 Principles of Biology 4

**Humanities**

- PHIL-21200 Introduction to Ethics or
- PHIL-23000 Bioethics 3

- Humanities elective from a department other than philosophy

**B.S. in Clinical Exercise Science**

The major in clinical exercise science (CES) provides the student with knowledge and skills to assess physical function and prescribe exercise for athletes, healthy and diseased individuals. This program allows students to become highly qualified in the assessment of exercise capacity and in the prescription and leadership of exercise. In a variety of settings (e.g., athletic, clinical, private, corporate, hospital), a CES-trained exercise professional will use exercise as a modality to help prevent or rehabilitate individuals with chronic lifestyle diseases, such as cardiovascular or pulmonary disease, diabetes, and hypertension. CES majors may also choose to work with athletes to improve performance through enhanced conditioning of strength, speed,
B.S. in Exercise Science

The exercise science major prepares the student with a theoretical understanding of the biomechanical, neuromuscular, physiological, and psychological effects of exercise stress on the human body.

Students who have graduated with a B.S. in exercise science have gone on to careers in exercise science, ergonomics, exercise and fitness journalism, exercise nutrition, fitness management, marketing and sales, medical/pharmaceutical sales, mind/body studies, wellness education, wilderness exercise science, and youth fitness. Many students have also pursued graduate degrees in exercise physiology, sport psychology, and related exercise and health science fields.

Students may choose one of three options to complete the exercise science major: B.S. in exercise science; B.S. in exercise science, sport and exercise psychology concentration; or B.S. in exercise science, medical sciences emphasis.

Special Academic Status Policy for Exercise Science Majors

Enrollment in capstone experiences requires a certain level of academic achievement. Enrollment in EXSS-47500 Research Team in Exercise and Sport Sciences requires a 3.00 minimum cumulative GPA and a minimum 3.25 GPA in all basic and applied sciences, except for EXSS-16200 Introduction to Fitness and Exercise Science and EXSS-27300 Community Service in Exercise and Sport Sciences. Enrollment in EXSS-46000 Internship in Exercise and Sport Sciences requires a 2.50 minimum cumulative GPA and a minimum 2.75 GPA in required courses in the exercise and sport sciences department, except for EXSS-16200 Introduction to Fitness and Exercise Science and EXSS-27300 Community Service in Exercise and Sport Sciences. Exercise science internships are typically in the student’s selected area of professional specialty and are not normally arranged in clinical settings. The exercise science student must plan with a faculty sponsor and have permission of the department chair to enroll in either the research team or the internship.

The B.S. in exercise science is designed to provide students with a strong background in the exercise sciences while providing the opportunity to tailor the major to their own interests and needs. To this end, students are encouraged to either complete a minor or work with a faculty adviser to create a cluster of courses within their free electives that support their career goals.

Requirements for the Major in Exercise Science — B.S.

General requirements

Computer science

A total of 3–4 credits based on results of an ESS competency exam, to be selected from the following:

EXSS-13900 Computer Applications in Exercise and Sport (level 2) (3) or
COMP-11000 Computers and Information Technologies (level 2) (3) or
COMP-xxxx Computer science elective (level 1) 3–4

Mathematics

A total of 4 credits to be selected from the following (students may be required to complete other mathematics courses prior to enrolling in these courses, depending on their scores on the math placement exam):

MATH-10700 Fundamentals of Applied Calculus (4) or
MATH-10800 Calculus for Decision Making (4) or
MATH-11100 Calculus I (4) 4

Statistics

MATH-14400 Business Statistics (4)
MATH-19500 Basic Statistical Reasoning [may not be taken after MATH-10800 or MATH-11100] (3) or
MATH-24300 Statistics (3) or
MATH-24400 Statistics with Probability (4) or
PSYC-20700 Statistics in Psychology (4) 3–4

Natural sciences

BIOL-11900 Fundamentals of Biology (4) or
BIOL-12100 Principles of Biology (4) 4
Natural sciences elective (3) 3
Total 7

Humanities

PHIL-21200 Introduction to Ethics or
PHIL-23000 Bioethics 3
Humanities elective (from a department other than philosophy) 3
Total 6
### Exercise Science, Sport and Exercise Psychology Concentration

#### Communication skills
- SPCM-11000: Public Communication or Business and Professional Communication 3
- WRTG-10600: Academic Writing I or Academic Writing II 3
- WRTG-xxxxx: Writing elective 3
- Total: 9

#### Social sciences
- PSYC-xxxxx: Psychology elective (excluding statistics and methods courses) 3
- Social sciences elective (from a department other than psychology) 3
- Total: 6

#### Basic and applied sciences
- EXSS-12000: Anatomy and Physiology I 4
- EXSS-12100: Anatomy and Physiology II 4
- EXSS-16200: Introduction to Fitness and Exercise Science 2
- EXSS-20200: Sport and Exercise Psychology 3
- EXSS-22000: Kinesiology 4
- EXSS-22100: Biomechanics of Human Movement 3
- EXSS-24000: Prevention and Care of Athletic Injuries 3
- EXSS-26000: Principles of Fitness Evaluation and Prescription 4
- EXSS-27300: Community Service in Exercise and Sport Sciences 1
- EXSS-32000: Neuromuscular Control 3
- EXSS-32100: Exercise Physiology 4
- EXSS-37500: Research Methods in Exercise and Sport Sciences 3
- Total: 38

#### Additional courses
- Aquatics electives (PHED-xxxxx or PALS-xxxxx) (0.5–1) and Lifetime sport/leisure activity electives (1–1.5) (from approved list in departmental office) 2
- HLTH-12200: Emergency Health Care 1
- HLTH-20200: Human Nutrition 3
- Total: 6
- Total, general requirements: 82–84

#### ESS restricted electives
A total of 15 credits to be selected from the following:
- EXSS-24700: Advanced Prevention and Care of Athletic Injuries 3
- EXSS-26000: Contemporary Issues in Sport and Exercise Psychology (3)
- EXSS-26300: Exercise Techniques (2)
- EXSS-29900: Psychology of Coaching (3)
- EXSS-33000: Motivation and Communication in Exercise and Sport (3)
- EXSS-36000: Medical Science I (3)
- EXSS-36100: Medical Science II (3)
- EXSS-44800: Pathophysiology (3)
- EXSS-36400: Complementary & Alternative Therapies (3)
- EXSS-42000: Advanced Biomechanics (4)
- EXSS-42100: Advanced Study in Exercise Physiology (3)
- EXSS-44300: Strength and Conditioning (3)
- ESSS-44400: Cardiopulmonary Assessment (3)
- Total: 15

#### Free electives
- Total: 21–23

#### Summary
- General requirements: 82–84
- ESS restricted electives: 15
- Free electives: 22–24
- Total, B.S. in exercise science: 120

### B.S. in Exercise Science, Sport and Exercise Psychology Concentration

The sport and exercise psychology concentration provides students with a theoretical understanding of the psychological components of sport and exercise participation and peak performance. Students are well positioned to pursue advanced study in sport and exercise psychology or to use their knowledge to present theoretical material in an applicable way to various groups through workshops, websites, scholarly articles, and sport psychology consultation.

In addition to the general exercise science requirements, students seeking the sport and exercise psychology concentration must complete a number of courses within the sport and exercise psychology discipline as well as a minor in psychology. Courses within the concentration include Sport and Exercise Psychology, Psychology of Coaching, Motivation and Communication in Exercise and Sport, and Seminar in Sport Psychology. A detailed list of these courses is available from the department office.

#### Requirements for the Major in Exercise Science, Sport and Exercise Psychology Concentration — B.S.

##### General requirements

- **Computer science**
  A total of 3–4 credits based on results of an ESS competency exam, to be selected from the following:
  - EXSS-13900: Computer Applications in Exercise and Sport (level 2) (3) or
  - COMP-11000: Computers and Information Technologies (level 2) (3) or
  - COMP-xxxxx: Computer science elective (level 1) (3–4) 3–4

- **Statistics**
  - MATH-14400: Business Statistics (4) or
  - MATH-10500: Basic Statistical Reasoning (may not be taken after MATH-10800 or MATH-11100) (3) or
  - MATH-24300: Statistics (3) or
  - MATH-24400: Statistics with Probability (4) or
  - PSYC-20700: Statistics in Psychology (4) 3–4

- **Natural sciences**
  - BIOL-11900: Fundamentals of Biology (4) or
  - BIOL-12100: Principles of Biology (4) 4
  - Total: 4

- **Humanities**
  - PHIL-21200: Introduction to Ethics or
  - PHIL-23000: Bioethics 3
  - Humanities elective (from a department other than philosophy) 3
  - Total: 6

- **Communication skills**
  - SPCM-11000: Public Communication or
  - SPCM-11500: Business and Professional Communication 3
  - WRTG-10600: Academic Writing I or
  - WRTG-11100: Academic Writing II 3
  - WRTG-xxxxx: Writing elective 3
  - Total: 9

- **Social sciences**
  - Social sciences elective (from a department other than psychology) 3
  - Total: 3

#### Basic and applied sciences
- EXSS-12000: Anatomy and Physiology I 4
- EXSS-12100: Anatomy and Physiology II 4
- EXSS-16200: Introduction to Fitness and Exercise Science 2
- EXSS-20200: Sport and Exercise Psychology 3
- EXSS-22000: Kinesiology 4
- EXSS-22100: Biomechanics of Human Movement 3
- EXSS-24000: Prevention and Care of Athletic Injuries 3
- EXSS-26000: Principles of Fitness Evaluation and Prescription 4
- EXSS-27300: Community Service in Exercise and Sport Sciences 1
- EXSS-32000: Neuromuscular Control 3
- EXSS-32100: Exercise Physiology 4
- EXSS-37500: Research Methods in Exercise and Sport Sciences 3
B.S. in Exercise Science, Medical Sciences Emphasis

The medical sciences emphasis prepares students for any of the medical professions, such as medicine, osteopathy, chiropractic, physical therapy, occupational therapy, and physician assistant, by incorporating the prerequisites for entry into medical and graduate schools into the general exercise science curriculum. The emphasis is designed so that students can select one of two biology, chemistry, and physics sequences based on the requirements of their chosen medical profession. Students completing the medical sciences emphasis are also well positioned to obtain employment in exercise and health science-related research and clinical positions in both public settings and private industry.

Requirements for the Major in Exercise Science, Medical Sciences Emphasis — B.S.

General requirements

Computer science
A total of 3-4 credits based on results of an ESS competency exam, to be selected from the following:

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<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tr>
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<td>COMP-xxxxx</td>
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Mathematics
A total of 4 credits to be selected from the following students may be required to complete other mathematics courses prior to enrolling in these courses, depending on their scores on the math placement exam:

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Statistics

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<td>PSYC-xxxxx</td>
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Psychology minor

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Total, general requirements 68–70

Summary

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<td>Total, B.S. in exercise science with a concentration in</td>
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<tr>
<td>sport and exercise psychology</td>
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B.S. in Exercise Science, Medical Sciences Emphasis

Additional courses

Aquatics electives (PHED-xxxxx or PALS-xxxxx) (0.5–1) and
Lifetime sport/leisure activity electives (1–1.5) (from approved list in departmental office)

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Sport and exercise psychology concentration

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Psychology minor

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Total, B.S. in exercise science with a concentration in sport and exercise psychology 120

Additional courses

Aquatics electives (PHED-xxxxx or PALS-xxxxx) (0.5–1) and
Lifetime sport/leisure activity electives (from approved list in departmental office) (1–1.5)

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Communication skills

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Social sciences

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Basic and applied sciences

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Additional courses

Aquatics electives (PHED-xxxxx or PALS-xxxxx) (0.5–1) and
Lifetime sport/leisure activity electives (from approved list in departmental office) (1–1.5)

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Total, general requirements 80–82

Medical sciences emphasis

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Natural sciences

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</tr>
<tr>
<td>Total, B.S. in exercise science with an emphasis in medical sciences</td>
<td>120</td>
</tr>
</tbody>
</table>

## Minors

Two minors are offered in the Department of Exercise and Sport Sciences: exercise science, and sport and exercise psychology.

### Exercise Science Minor

The exercise science minor is designed to give students a foundation in exercise science for pursuing related professional interests in health care or personal interests in the lifetime pursuit of sports participation, fitness, and wellness. The exercise science minor is open to students majoring in all disciplines except exercise and sport sciences.

### Curriculum

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXSS-12000</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>EXSS-12100</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>EXSS-22000</td>
<td>Kinesiology</td>
<td>4</td>
</tr>
<tr>
<td>EXSS-22100</td>
<td>Biomechanics of Human Movement</td>
<td>3</td>
</tr>
<tr>
<td>EXSS-32100</td>
<td>Exercise Physiology</td>
<td>4</td>
</tr>
</tbody>
</table>

Total, minor in exercise science: 19

It is recommended, but not required, that students also choose one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXSS-29600</td>
<td>Sport and Exercise Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EXSS-32000</td>
<td>Neuromuscular Control</td>
<td>3</td>
</tr>
<tr>
<td>EXSS-42100</td>
<td>Advanced Study in Exercise Physiology</td>
<td>3</td>
</tr>
</tbody>
</table>

### Sport and Exercise Psychology Minor

The sport and exercise psychology minor provides students with a basic understanding of the psychological components of sport and exercise participation and peak performance. Students will acquire practical and applied knowledge for team building, leadership, and goal setting, which may be used in coaching, business, industry, and wellness. The sport and exercise psychology minor is open to students majoring in all disciplines except exercise science with a concentration in sport and exercise psychology.

### Curriculum

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXSS-20200</td>
<td>Sport and Exercise Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EXSS-26600</td>
<td>Contemporary Issues in Sport Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EXSS-29900</td>
<td>Psychology of Coaching</td>
<td>3</td>
</tr>
<tr>
<td>EXSS-33000</td>
<td>Motivation and Communication in Exercise and Sport</td>
<td>3</td>
</tr>
<tr>
<td>EXSS-40400</td>
<td>Leadership/Team Building</td>
<td>3</td>
</tr>
<tr>
<td>EXSS-43400</td>
<td>Sport Counseling</td>
<td>3</td>
</tr>
</tbody>
</table>

Total, minor in sport and exercise psychology: 18

## EXERCISE AND SPORT SCIENCES COURSES

### EXSS-12000 Anatomy and Physiology I

Develops a comprehensive understanding of the close interrelationship between anatomy and physiology as seen in the human organism. Covers the cells and tissues: epithelial, connective, muscle, and nerve. 4 credits. (F,Y)

### EXSS-12100 Anatomy and Physiology II

Continuation of EXSS-12000. Covers the circulatory, endocrine, ventilatory, renal, digestive, and reproductive systems. Also reviews the muscular system from both a functional and structural perspective. Prerequisites: EXSS-12000. 4 credits. (S,Y)

### EXSS-12400 Emergency Care for the Health Professional

This course is designed to certify students in CPR/AED for the professional rescuer. Emphasis will be placed upon technique and execution of required skills. Basics of emergency injury care/first aid will be covered. Time for practice of common techniques will be included so that the student may develop and apply practical skill competencies. 1 credit. (F-S,B,Y)

### EXSS-13900 Computer Applications in Exercise and Sport

Introduction to microcomputers and their application in the fields of exercise and sport science, with emphasis on word processing, spreadsheets, presentation software, web page design, and use of the Internet in a Microsoft Windows environment. Students get hands-on experience applying software in areas specifically related to their field of study. A student may receive credit for only one of the following courses: COMP-11000, PHED-13900, TRLS-13900, HLT-13900, EXSS-13900. 3 credits. (F-S,Y)

### EXSS-16200 Introduction to Fitness and Exercise Science

NLA

Presents a basic understanding of physical fitness as it relates to health and disease. Emphasis is placed on safe, effective techniques for developing all components of health-related fitness. Skills presented help students become savvy consumers of exercise information. Discussion of the many and varied career opportunities in exercise science. 2 credits. (F-S,Y)

### EXSS-17300 Fieldwork in Clinical Exercise Science I

NLA

Practical experience in hospital, corporate, clinical, and/or community settings. The objective is to observe closely the daily operations and special functions implemented in these settings and the practice of using exercise for prevention of or rehabilitation from disease. Prerequisites: Application to and permission of clinical exercise science (CES) coordinator. 1 credit. (Sum,Y)

### EXSS-20000Clinical Experience in Athletic Training I

NLA

Supervised practical experience in an athletic training setting at Ithaca College. A minimum of 60 clock-hours is required; students apply basic clinical skills taught in previous coursework. Clinical proficiencies emphasized include basic emergency care, protective taping and wrapping, injury evaluation, and basic therapy techniques. Prerequisites: EXSS-24700. Corequisites: EXSS-25100; EXSS-25600. 1 credit. (S,Y)

### EXSS-20200 Sport and Exercise Psychology

SS LA 1

Introduction to the psychological factors that influence individual and group sport and exercise participation. Psychological skills training (PST) techniques used to enhance sport and exercise performance are presented. Topics include exercise and rehabilitation adherence, management of eating disorders and substance abuse, burnout and overtraining, self-confidence, goal setting, anxiety and stress management, concentration and attention control, imagery and visualization, group cohesion, sport and exercise leadership, motivation, and communication. Prerequisites: Sophomore standing. 3 credits. (F-S,Y)

### EXSS-22000Kinesiology

NS LA

Examines the anatomical structures and mechanical aspects of human movement. Emphasis is placed on the functional anatomy of the musculoskeletal and articular systems. Pathologies of upper and lower extremities and trunk are examined for contributions to abnormal patterns of posture, movement, and locomotion. Basic neuromuscular and biomechanical principles are introduced. Laboratory exercises concentrate on the role of muscle and joint action during basic movements and the adaptations that can result from pathologic conditions. The focus is on individual joint function and the integrated function of several joints during complex activities such as normal human locomotion. Corequisites: EXSS-12100. 4 credits. (F-S,Y)

### EXSS-22100 Biomechanics of Human Movement

LA

The study of biological and mechanical factors that affect humans as they move in exercise and sport. Kinematic and kinetic descriptions of selected motor skills receive careful consideration. Hands-on experiences through cinematographic analyses of human movements are provided. Prerequisites: EXSS-22000. Not open to students who have taken or are currently taking PHYS-10100 Introduction to Physics or PHYS-11700 Principles of Physics. 3 credits. (F-S,Y)

### EXSS-24000 Prevention and Care of Athletic Injuries

NLA

Introduction to basic concepts in athletic training, with emphasis on anatomical bases and mechanisms of common athletic injuries. Basics of injury prevention, recognition, and initial care are covered. Laboratory time for practice of common taping and wrapping techniques is included so that students may develop these practical skills. Prerequisites: EXSS-12000. 3 credits. (F-S,Y)

### EXSS-24700 Advanced Prevention and Care of Athletic Injuries and Illnesses

NLA

Expands upon and adds to the material in EXSS-24600, with more detailed information regarding athletic trauma and illness. Emphasis is placed on injury evaluation, proper initial management, common pathologies, and management rationale. Prerequisites: EXSS-24600. 3 credits. (F-S,Y)

### EXSS-25000 Athletic Training Techniques I

NLA

Lecture-laboratory course to develop and refine taping and wrapping skills. Prerequisites: EXSS-24600; EXSS-24700 (may be taken concurrently); sophomore standing. 1 credit. (F,Y)
Exercise and Sport Sciences Courses

EXSS-25100 Athletic Training Techniques II NLA
Lecture-laboratory course to develop and refine orthopedic evaluation skills specific to the assessment and evaluation of athletic injuries. Prerequisites: EXSS-24700; sophomore standing. Corequisites: EXSS-25600. 1 credit. (S,Y)

EXSS-25600 Athletic Injury Assessment NLA
Assessment procedures and factors related to the evaluation of athletic injuries. Emphasis is placed on anatomical bases and mechanisms of athletic injuries to the upper and lower extremities and to the head and axial regions. Time for practice is included so that students may develop essential practical assessment skills. Prerequisites: EXSS-24600; EXSS-24700 (may be taken concurrently). 3 credits. (S,Y)

EXSS-26000 Contemporary Issues in Sport and Exercise Psychology LA
Designed to introduce students to current issues and trends in the field of applied sport psychology. Through a discussion-based and interactive class format, students will learn to critically think about and discuss some of the challenges and controversies faced by professionals in the fields of sport psychology and sport consulting. Topics include the establishment of ethical and professional criteria and accountability, education for future sport psychology consultants, certification criteria, marketing of sport psychology consulting services, the role of counseling in the education of consultants, using applied sport psychology skills with parents and fans, integrating technology into consulting practices, the role of the sport psychology consultant in handling athlete drug use and abuse, and other current issues. Prerequisites: EXSS-20200. 3 credits. (S,Y)

EXSS-26200 Principles of Fitness Evaluation and Prescription NLA
Develops the rationale for and the skills to evaluate and prescribe health-related fitness programs for individuals in a variety of settings. The class includes lectures, demonstrations, and practical laboratories. This course is intended to help prepare the student to sit for a number of national certification examinations. Prerequisites: EXSS-121000. 4 credits. (F,Y)

EXSS-26300 Exercise Techniques NLA
Provides each student with both classroom and practical learning experiences designed to develop the skills needed to be a competent exercise instructor—leader. The course allows students to put into practice their knowledge of exercise from their previous coursework in biomechanics, exercise physiology, and conditioning for performance and health. Students will be involved in group-centered instruction, field observation, laboratory experiences, and practical exercises of skill execution. Prerequisites: EXSS-26200. 2 credits. (F-S,Y)

EXSS-27300 Community Service in Exercise and Sport Sciences NLA
Volunteer work in the community. Emphasizes donating time to promote community well-being, using skills developed in exercise and sport sciences programs. Examples include working at health fairs, checking blood pressure, measuring body composition, and determining blood lipid profiles. Prerequisites: EXSS-26200; permission of the instructor. Pass/Fail only. 1 credit. (F-S,Y)

663-29900 Psychology of Coaching LA
Designed to expose the student to the varied psychological factors that influence effective coach-athlete interactions. Through lecture, small group, workshop, and larger group cooperative learning formats, students will learn and develop specific psychological skills training (PST) principles and strategies that can be used in their varied coaching roles. They will develop practical hands-on (applied) strategies for creating practice and competitive environments that foster greater athlete success and team goal attainment. Prerequisites: EXSS-20200. 3 credits. (F,Y)

EXSS-30000 Clinical Experience in Athletic Training II NLA
Supervised practical experience in an athletic training setting at Ithaca College or an affiliated site. A minimum of 60 clock-hours is required. Clinical proficiencies emphasized include basic injury assessment, record keeping, and more advanced therapy techniques. Prerequisites: Athletic training major; EXSS-20000. Corequisites: EXSS-34000; EXSS-35000. 1 credit. (F,Y)

EXSS-30100 Clinical Experience in Athletic Training III NLA
Supervised practical experience in an athletic training setting at Ithaca College or an affiliated site. A minimum of 60 clock-hours is required. Clinical proficiencies emphasized include basic therapeutic exercise techniques and advanced modality use. Prerequisites: Athletic training major; EXSS-30000. Corequisites: EXSS-34200; EXSS-35100. 1 credit. (S,Y)

EXSS-32000 Neuromuscular Control NS LA
Study of sensorimotor and musculoskeletal systems involved in producing coordinated and purposeful movements. Injury, training, practice, learning, and other cognitive-emotional processes are examined as they affect the neuromuscular control of finely coordinated skills and vigorous physical performance. Emphasis is placed on understanding the relevant neurophysiological mechanisms and determining how these mechanisms can be exploited to maximize performance, wellness, and rehabilitation ease. Exploration of theories of motor control, from the general motor program to the dynamic system theory. Lecture and Laboratory. Prerequisites: EXSS-22000; PTBS-31300; PTBS-40100; or OTR-31000; junior standing. 3 credits. (F-S,Y)

EXSS-32100 Exercise Physiology LA
Examines physiological changes during exercise, after exercise, and during a training period. Also considers efficiency, needs, and limitations of body systems, and their interrelationships. Lecture, demonstration, and laboratory. Prerequisites: EXSS-121000; junior standing. 4 credits. (F-S,Y)

EXSS-33000 Motivation and Communication in Exercise and Sport LA
Designed to provide an in-depth study of both motivation and communication and examine the impact each has on personal performance and experience in sport and exercise. Emphasis will be placed on understanding various motivational approaches, developing individual and team motivational strategies, overcoming motivational myths, using appropriate feedback and reinforcement, enhancing coach-athlete and coach-coach communications, learning active listening and verbal and nonverbal communication skills, promoting constructive criticism and confrontations, and preventing communication barriers in sport and exercise. Prerequisites: EXSS-20200. 3 credits. (F,Y)

EXSS-34000 Therapeutic Modalities in Athletic Training NLA
Contemporary therapeutic modalities used in managing athletic injuries. Modalities covered are classified as thermal agents, electrical agents, or mechanical agents. Emphasis is placed on their physiological effects, therapeutic indications and contraindications, and clinical application. Prerequisites: EXSS-25600. 3 credits. (F,Y)

EXSS-34200 Therapeutic Exercise in Athletic Training NLA
Basic principles of therapeutic exercise to develop, maintain, and/or improve components of physical fitness. Emphasis is placed on these principles as well as on specific exercise programs for rehabilitation of major athletic injuries. Prerequisites: EXSS-34000. 3 credits. (S,Y)

EXSS-34900 Fieldwork in Exercise and Sport Sciences NLA
Practical experience in corporate or clinical settings, amateur and professional sport agencies, and community organizations. Focus is on observation, guided learning, and supervised practical experiences. Prerequisites: Exercise and sport sciences major or minor; junior standing or above; permission of department chair. 1–6 credits. (F-S,Y)

EXSS-35000 Athletic Training Techniques III NLA
Lecture-laboratory course to develop and refine essential skills related to therapeutic modalities. Prerequisites: EXSS-25600; junior standing. Corequisites: EXSS-34000. 1 credit. (F,Y)

EXSS-35100 Athletic Training Techniques IV NLA
Lecture-laboratory course to develop and refine essential skills related to therapeutic exercise in sports medicine. Prerequisites: EXSS-25600; junior standing. Corequisites: EXSS-34200. 1 credit. (F,Y)

EXSS-36000 Medical Science I NLA
A detailed review of human diseases based on an organ-system approach. Emphasis will be placed on common diseases that are pertinent to anyone studying a health-related field. Pharmacological considerations will be highlighted. The course will feature guest speakers representing various health care professions. Prerequisites: Junior standing. 3 credits. (F,Y)

EXSS-36100 Medical Science II NLA
A detailed review of human diseases based on an organ-system approach. Emphasis will be placed on common diseases that are pertinent to anyone studying a health-related field. The course will feature guest speakers representing various health care professions. Prerequisites: EXSS-36000. 2 credits. (S,Y)
EXSS-36400 Complementary and Alternative Therapies LA
Survey of complementary and nontraditional wellness and therapeutic modalities. Emphasis is placed on bodywork and mind-body interventions, including somatics, biofield therapies, and energy medicine. Alternative systems and philosophies of medical practice, the nature of practitioners, and dietary supplements are also covered. Scientific and non-scientific rationales for modalities are critically examined. Prerequisites: Junior standing or above; one course in human biology or physiology (BIOL-10800, BIOL-11500, BIOL-11900, BIOL-12100, BIOL-20500, or EXSS-12000); one course in psychology (PSYC-xxxx); 3 credits. (F,O)

EXSS-36500 Internship in Athletic Training I NLA
A supervised clinical experience for junior AT majors. Relevant clinical experiences must include exposure to upper extremity, lower extremity, and equipment-intensive experiences with both genders. A minimum of 240 practical hours is required, and a minimum of 120 of these hours must be attained under the supervision of an approved clinical instructor. These clinical experience hours may be completed in any combination during the fall, spring, or summer sessions. Prerequisite: Formal admission/retention into athletic training major. 4 credits. (F-S,Sum)

EXSS-37700 Fieldwork in Clinical Exercise Science II NLA
Practical experience in hospital, corporate, clinical, and/or community settings. The objective is to observe closely and have some supervised experience in the daily operations and special functions involved in using exercise for prevention of or rehabilitation from disease. A clear focus for internship planning should be developed during this fieldwork. May be repeated once for credit. Prerequisites: Junior standing; EXSS-26200; application to and permission of the clinical exercise science (CES) coordinator. 1 credit. (Sum, Y)

EXSS-37500 Research Methods in Exercise and Sport Sciences LA 2b
Examination of the investigative methods used in exercise and sport sciences research. Design of experiments and application of statistical techniques for several types of research are explored. Includes proposal preparation for an original research project. Prerequisites: COMP-xxxx or EXSS-13900; MATH-15500, MATH-24300, MATH-24400, or PSYC-20700; EXSS-22100; junior standing. 3 credits. (S, Y)

EXSS-39600 Seminar in Sport Psychology LA 1
In-depth examination of salient topics in contemporary sport psychology. Students review conceptual and research literature, and discuss and write reports on topics of interest, such as motivation, personality, violence and aggression, team cohesion, and health psychology. Prerequisites: EXSS-26000. 3 credits. (F,Y)

EXSS-39900-EXSS-39999 Selected Topics in Exercise and Sport Sciences LA/NLA
Topics of current interest to faculty and students. Experimental courses are offered under this course number and title. This course may be repeated for credit different selected topics. Prerequisites: As appropriate to topics. 1-3 credits. (IRR)

EXSS-40000 Clinical Experience in Athletic Training IV NLA
Supervised practical experience in an athletic training setting at Ithaca College or an affiliated site. A minimum of 60 clock-hours is required. Clinical skills emphasized include advanced therapeutic exercise techniques, therapeutic exercise protocols for major joints, and pre-event management. Prerequisites: EXSS-30100; athletic training/exercise science major. 1 credit. (F,Y)

EXSS-40100 Clinical Experience in Athletic Training V NLA
Supervised practical experience in an athletic training setting at Ithaca College or an affiliated site. A minimum of 60 clock-hours is required, and clinical proficiencies emphasized include presentation of season-ending injury reports as well as case histories. Prerequisites: EXSS-40000; athletic training major. 1 credit. (S,Y)

EXSS-40400 Leadership and Team Building in Exercise and Sport LA
An in-depth study of the principles and applied strategies that influence effective leadership and the building of productive teams. Emphasis is placed on developing high-performing teams through the effective use of individual, team, and corporate sport leadership. Topics include the assessment, training, and implementation of leadership qualities, skills, and “laws” that promote the proper development of leaders and teams. Theoretical foundations will be discussed for situational, transformational, charismatic, and servant leadership as it relates to the building of championship teams. The course format includes small groups, lecture, role-playing, and student-taught workshops (cooperative learning). Prerequisite: EXSS-33000. 3 credits. (F,Y)

EXSS-42000 Advanced Biomechanics of Human Movement NS/LA
An in-depth exploration of the biomechanics of human motion, focusing on the concepts and skills needed to perform and interpret biomechanical analyses of a variety of human movements. Topics will include anthropometry, kinematics, kinetics, and mechanical work, energy, and power. Selected human movement skills from sport, clinical, and occupation settings will be examined in lecture and during hands-on laboratory experiences. Prerequisites: EXSS-22000; EXSS-22100, EXSS-10100, or EXSS-11700, with C- or better; and EXSS-32100. 4 credits. (S,Y)

EXSS-42100 Advanced Study in Exercise Physiology LA
An extension of EXSS-32100 Exercise Physiology that goes into greater depth on the physiological mechanisms that regulate the body's responses and adaptations to exercise. Special physiological considerations of gender, development and aging, obesity, pregnancy, and environmental stress (e.g., altitude, pollution, extreme temperature) are emphasized. Popular pharmaceutical and dietary manipulations used to enhance exercise performance are discussed. Experimental research in exercise physiology is introduced, and limited laboratory experiences are scheduled during class time. Prerequisites: EXSS-32100. 3 credits. (F- S,Y)

EXSS-42200 Exercise and Rehabilitation Psychology SS LA
Discussion of the psychological antecedents of exercise, including barriers and adherence to exercise or rehabilitation regimens. Particular attention will also be given to wellness, stress, the biobehavioral basis of coronary heart disease and other illnesses, and the psychodynamics of rehabilitative medicine. Prerequisites: EXSS-20200; EXSS-32100; junior standing. 3 credits. (F,Y)

EXSS-43000 Seminar in Athletic Training NLA
Seminar for senior students majoring in athletic training, intended to expand and reinforce learning that has taken place in previous core courses. Major topics include contemporary issues, athletic training administration, budget management, facility design, protective equipment, injury evaluation, modality operation, and treatment and rehabilitation programs. Prerequisites: EXSS-25600; senior standing in athletic training/exercise science. 3 credits. (F-S,Y)

EXSS-43100 Medical Aspects of Athletics NLA
A course to familiarize athletic training majors with illnesses and nonorthopedic problems that affect athletes. Prerequisites: Senior standing in athletic training/exercise science. 1 credit. (S,Y)

EXSS-43200 Orthopedic Perspectives on the Shoulder and the Knee NLA
Orthopedic examination of the shoulder and knee, including the orthopedic decision-making process for shoulder and knee disorders. Various procedures and the rationale for rehabilitation protocols are addressed. Provides hands-on experience in laboratory sessions. Prerequisites: Senior standing in athletic training. Pass/Fail only. 1 credit. (S,Y)

EXSS-43600 Sport and Exercise Counseling LA
An introduction to the sport counseling process and to the various performance issues related to counseling student-athletes. Students will develop a strong base of knowledge related to the counseling process and will have multiple opportunities to practice counseling skills in role-playing and small group formats. Topics include the need for counseling, stereotypes and biases, the counseling process, attending and listening, empathy, helping athletes tell their stories, brief counseling, and various topics and concerns that arise when counseling student-athletes from different populations. The course will be taught through lecture, large- and small-group discussions, role-playing, and modeling. Prerequisites: EXSS-33000; senior standing. 3 credits. (S,Y)

EXSS-44700 Pathophysiology, Limited Capacity, and Exercise NLA
Study of the pathophysiology of disease or disabling states, the assessment of exercise potential, and the special considerations for prescription of exercise in these cases. Special emphasis is placed on discussion of phase I and phase II cardiac rehabilitation, diabetic patients, pulmonary disease, and working with older adults with limited functional capacity. Additional special populations are discussed as time permits. Material is geared to the learning objectives of the American College of Sports Medicine’s exercise specialist certification. Prerequisites: EXSS-24600; EXSS-26200; EXSS-32100. 3 credits. (S,Y)

EXSS-45000-EXSS-45099 Independent Study in Exercise and Sport Sciences LA
Individual study program for the investigation of special issues or topics in the field of exercise or sport science that have such breadth of cultural or psychological material, such rigor and depth of theoretic structure, or such play of broad intellectual and aesthetic themes as to be classified as liberal arts. Arranged
EXSS-46300 Application of Strength and Conditioning Principles NLA
An examination of the building blocks necessary to design, implement, and test a sport-specific training program. Emphasis on determination of training needs through individualized, sport-specific needs analyses and performance goal setting. Short- and long-term benefits of training programs and the application of training cycles are discussed. The course is directed toward skill acquisition and application of various exercises and training activities. Instruction in the proper techniques and execution of training activities is included. Lecture and laboratory. Prerequisites: EXSS-26300; EXSS-32100 (may be taken concurrently). 3 credits. (F, Y)

EXSS-46400 Cardiopulmonary Assessment for Exercise NLA
Addresses techniques for assessment of cardiovascular and pulmonary disease. Emphasis is placed on developing skill in electrocardiography, graded exercise testing, and the assessment of maximal functional capacity. Utilizes diagnostic assessments in the development of appropriate exercise prescriptions. Material is geared to meet learning objectives of outside certifying agencies. Prerequisites: EXSS-26200; EXSS-32100. 3 credits. (F-S, Y)

EXSS-46500 Practicum in Fitness Leadership NLA
Supervised practical experience in the Ithaca College Wellness Clinic. A minimum of 60 clock-hours is required. Clinical proficiencies will include fitness evaluations, graded exercise testing, designing exercise programs, supervising exercise sessions, disseminating educational information, counseling clients, and administrative tasks. Prerequisites: EXSS-46200; EXSS-46300; EXSS-46400. 1 credit. (F-S, Y)

EXSS-46800 Fieldwork in Athletic Training NLA
Provides an opportunity for seniors to engage in a meaningful off-campus experience in a field setting related to athletic training, sports medicine, or health care. Attempts will be made to consider special interests. Prerequisites: EXSS-24700; EXSS-25600; EXSS-33700; permission of the National Athletic Trainers’ Association program director. 1–6 credits. (F-S, Y)

EXSS-47300 Internship: Preventative Clinical Exercise Science NLA
A practical learning experience in a setting using exercise for disease prevention or athletic performance enhancement. Sites for these internships include corporate fitness centers, wellness clinics, and community-based health clubs, where a primarily healthy clientele is seen. Students are involved with the daily operation of the agency. Prerequisites: EXSS-46300; a minimum cumulative GPA of 2.50 with a minimum of 2.75 in specific major requirements; permission of the clinical exercise science coordinator. 6–12 credits. (F-S, Y)

EXSS-47400 Internship: Rehabilitative Clinical Exercise Science NLA
A practical learning experience in a setting using exercise for rehabilitative purposes. Sites such as hospitals and clinics, where a primarily limited-capacity clientele with existing disease is seen, are typical. Students become involved with the day-to-day operation of the agency. Prerequisites: EXSS-46400; a minimum cumulative GPA of 2.75 with a minimum of 3.00 in specific major requirements; permission of the clinical exercise science coordinator. 6–12 credits. (F-S, Y)

EXSS-47500 Research Team: Exercise and Sport Sciences U LA
Capstone research experience involving data collection, synthesis, analyses, and interpretation. Planned in consultation with faculty and submitted for approval by a sponsoring faculty member and the department chair. Implemented under the supervision of the faculty sponsor. Available only to students meeting the department's academic standards for independent study. Prerequisites: EXSS-37500; permission of instructor. 1–3 credits. (IRR)

HEALTH PROMOTION AND PHYSICAL EDUCATION
Mary Beutley, Associate Professor and Chair
The Department of Health Promotion and Physical Education prepares students to take an active role in the promotion of health and physical activity, with a focus on enhancing the well-being of people through education in school and community settings, instruction in the health sciences, or leadership in health policy. The Department of Health Promotion and Physical Education offers the following majors:

- B.S. in physical education (teaching)
- B.S. in health education (teaching)
- B.S. in health education and physical education (teaching)
- B.S. in community health education
- B.S. in health sciences
- B.A. in health policy studies
- B.S. in health services administration*
- B.S. in health care management*

* No new majors being accepted

Additionally, the Department of Health Promotion and Physical Education, under the physical activity, leisure, and safety (PALS) program, offers a variety of physical activity and leisure services courses to students.

B.S. in Physical Education (Teaching)

The program in physical education prepares students for initial New York State certification to teach at elementary and secondary school levels. Coursework includes strong preparation in the liberal arts, health and exercise sciences, teacher education, professional theory, and professional skills. A full semester of student teaching in the senior year is required in this program. One of the two student teaching placements will be in Rochester, New York. Students who complete the major are eligible to apply for teacher certification after successfully completing the appropriate examinations. New York certification requires the New York State Teacher Certification Examinations; other states may require the Praxis examination or another designated state teaching examination.
Medical clearance by the Ithaca College health center is required for participation in any activity course. Students who do not have such clearance will not be able to complete the requirements for this degree.

All candidates for teaching certification must attend a two-hour workshop on child abuse identification and prevention, and a two-hour workshop on drug and alcohol abuse. The evening workshops are offered each semester. For more information about certification requirements and for information about fingerprinting requirements, refer to the Department of Education, p. 142.

Special Academic Status Policy for Physical Education Majors

Acceptance into and retention in the physical education major is subject to compliance with the following academic standards:

1. Maintain a cumulative GPA of at least 2.50.
2. Maintain a minimum GPA of 2.75 after the sophomore year in PHED-23400 and HLTH-21300, in the professional education core (PSYC-21010, SLPA-21900, SPCM-22900, PHED-44100), and in HLTH-15200, PHED-21200, PHED-23000, PHED-25500, PHED-33000, PHED-33200, PHED-33300, PHED-43900, and PHED-44000.
3. Each of the aforementioned courses must be completed with at least a C (not C-). Failure to do so mandates repeating the course. The Ithaca College policy on repeating a course must be followed.
4. A student failing to meet the minimum standards in the first two bulleted items listed above in any given semester will be placed on program academic warning and be given one semester to attain these standards. Students failing to meet these academic standards for two consecutive semesters or in any three semesters total will be subject to dismissal from the major.
5. No student will be allowed to enroll in an internship or student teaching (PHED-46000, PHED-44100, and PHED-44000) unless he or she has met these standards in the previous semester.
6. Students who wish to do their student teaching any time during the senior year must file an application early in the spring of the junior year and receive approval from the Department of Health Promotion and Physical Education. One of the two student teaching placements will be in Rochester, New York.
7. Students must present a current American Red Cross CPR and first aid card to the coordinator of student teaching prior to student teaching.

Requirements for the Major in Physical Education (Teaching) — B.S.

General requirements (LA)

- **Speech elective** — A total of 3 credits selected from the following:
  - SPCM-11000: Public Communication (3)
  - SPCM-11500: Business and Professional Communication (3)
  - SPOM-14000: Small Group Communication (3)
  - SPOM-14900: Fundamentals of Interpersonal Communication (3)

- **Multicultural elective** — A total of 3 credits selected from the following:
  - POLT-14100: Power, Race, Sex, and Class (3)
  - SOCI-11000: Introduction to Sociology (3)
  - SOCI-11600: Introduction to Multicultural Studies (3)
  - SOCI-20700: Race and Ethnicity (3)
  - ANTH-10400: Cultural Anthropology (3)
  - ANTH-12900: Introduction to Global Studies (3)

- **Writing electives** — A total of 6 credits selected from the following:
  - WRTG-10400: Academic Writing I
  - WRTG-11100: Academic Writing II
  - WRTG-xxxx: Elective (not WRTG-10100)

Additional

- **MATH-xxxx**: Mathematics elective (not MATH-10000, MATH-15200, MATH-15300, or MATH-18000)
- **ARAB-xxxx, CHIN-xxxx, FREN-xxxx, GERG-xxxx, HEBR-xxxx, ITAL-xxxx, LATN-xxxx, SPAN-xxxx, RUSS-xxxx**: Language elective — based on proficiency, 6 credits in the same language other than English

- **Liberal arts electives**: 13-16

- **Total, general requirements (LA)**: 35

Health and exercise sciences

- **PHED-23400**: Fitness Applications for Health Promotion 4
- **HLTH-11300**: Personal Health 3
- **HLTH-21300**: Wellness: Multicultural Perspectives on Health and Healing 3
- **EXSS-12000**: Anatomy and Physiology I 4
- **EXSS-12100**: Anatomy and Physiology II 4
- **EXSS-24400**: Prevention and Care of Athletic Injuries 3

- **Total, health and exercise sciences** 21

Professional education

- **PSYC-21010**: Educational Psychology 3
- **SLPA-21900**: Language/Literacy Development in Children Age 3 to 21 2
- **SLPA-22900**: Second Language Acquisition: Its Nature and Meaning for Educators 2
- **PHED-44100**: Student Teaching 10
- **PHED-44800**: Professional Seminar 2
- **EDUC-34000**: Social and Cultural Foundations of Education 3

- **Total, professional education** 22

Professional content and pedagogy: physical education

- **HLTH-13901**: Technology for the Professional Edge 3
- **HLTH-15200**: Introduction to Health and Physical Education 3
- **HLTH-21100**: Health and Safety Needs of Children 3
- **PHED-10100**: Teaching Strategies in Physical Education 1
- **PHED-14400**: Fundamentals of Dance and Movement 1
- **PHED-17800**: Fundamental Movement Concepts in Gymnastics 1
- **PHED-20200**: Teaching Goal-Oriented Games in Physical Education 1
- **PHED-20400**: Teaching Net/Wall Games in Physical Education 1
- **PHED-20600**: Teaching Target and Fielding Games in Physical Education 1
- **PHED-20600**: Teaching Fundamental Skills and Games in Elementary Physical Education 2
- **PHED-20700**: Teaching Outdoor Pursuits and Contemporary Activities 3
- **PHED-20800**: Teaching Individual and Contemporary Activities 1
- **PHED-21200**: Motor Skill Development 1
- **PHED-23000**: Teaching Movement Concepts in Elementary Physical Education Curriculum 1
- **PHED-23500**: Teaching Fitness in Physical Education 1
- **PHED-25500**: Philosophy and Principles of Coaching 1
- **PHED-33000**: Adapted Physical Education and Sport 3
- **PHED-33200**: Curriculum and Methods in Elementary School 3
- **PHED-33300**: Curriculum and Methods in Secondary School Physical Education 3
- **PHED-43900**: Tests and Measurement in Physical Education 3
- **PHED-44000**: Organization and Administration of Physical Education and Athletics 3

- **Total** 42

Summary

- **General requirements (LA)** 35
- **Health and exercise sciences** 21
- **Professional education** 22
- **Professional content and pedagogy: physical education** 42

- **Total, B.S. in physical education [teaching]** 120

**B.S. in Health Education (Teaching)**

This program prepares students to educate others about personal, family, and community health concerns, including maintaining good health and preventing illness. Graduates may teach health in elementary and secondary schools or serve in public health and social service agencies. The curriculum has a broad, interdisciplinary orientation that emphasizes the biological, psychological, and sociological aspects of health. A full semester of student teaching in the senior year is required in this program. The semester is divided into two separate placements, with one of the placements in Rochester, New York.

Students who complete this major qualify to take the national examination to be certified as health education specialists and are eligible to apply for initial
teacher certification after successfully completing the appropriate examinations. New York certification requires the New York State Teacher Certification Examinations; other states may require the Praxis examination or another designated state teaching examination.

All candidates for initial teaching certification must attend a two-hour workshop on child abuse identification and prevention. The evening workshop is offered once each semester. For more information about certification requirements, and for information about fingerprinting requirements, refer to the Department of Education, p. 142.

Special Academic Status Policy for Health Education Majors
1. Maintain a cumulative GPA of at least 2.50.
2. Maintain a minimum GPA of 2.75 after the sophomore year in the professional health core (SOCI-21500, HLTH-15200, HLTH-20200, HLTH-22800, HLTH-22900, HLTH-31500, HLTH-33300, HLTH-35000, HLTH-43900) and in the professional education core (PSYC-21010, SLPA-21900, SLPA-22900, HLTH-36000, HLTH-42000, HLTH-44100, HLTH-44800, and TCED-34000).
3. Each of the aforementioned courses must be completed with at least a C (not C-). Failure to do so mandates repeating the course. The Ithaca College policy on repeating a course must be followed.
4. A student failing to meet the minimum standards in 1 and 2 above in any given semester will be placed on program academic warning and be given one semester to attain these standards. Students failing to meet these academic standards for two consecutive semesters or in any three semesters will be subject to dismissal from the major.
5. No student will be allowed to enroll in an internship or student teaching (HLTH-49000, HLTH-44100, and HLTH-44800) unless he or she has met these standards in the previous semester.
6. Students who wish to do their student teaching any time during the senior year must file an application early in the spring of the junior year and receive approval from the Department of Health Promotion and Physical Education. One of the two student teaching placements will be in Rochester, New York. Students must present a current American Red Cross CPR and first aid card to the coordinator of student teaching prior to student teaching.

Requirements for the Major in Health Education (Teaching) — B.S.

General requirements (LA)

Biology elective — At least 3 credits selected from the following:
- BIOL-10400 Environmental Biology (3)
- BIOL-11500 Essentials of Biology (3)
- BIOL-11900 Fundamentals of Biology (4)  3–4

Speech elective — A total of 3 credits selected from the following:
- SPCM-11000 Public Communication (3)
- SPCM-14000 Small Group Communication (3)
- SPCM-14900 Fundamentals of Interpersonal Communication (3)
- SPCM-21800 Speech Communication for the Classroom Teacher (3)  3

Multicultural elective — A total of 3 credits selected from the following:
- POLT-14100 Power: Race, Sex, and Class (3)
- SOCI-11600 Introduction to Multicultural Studies (3)
- SOCI-20700 Race and Ethnicity (3)
- ANTH-10400 Cultural Anthropology (3)
- ANTH-12900 Introduction to Global Studies (3)  3

Counseling elective — A total of 3 credits selected from the following:
- SOCI-30800 Counseling Theory and Dynamics (3)
- SOCI-30900 Group Counseling (3)  3

Writing electives — A total of 6 credits selected from the following:
- WRTG-10600 Academic Writing I or
- WRTG-11100 Academic Writing II  3
- WRTG-xxxx Writing elective (not WRTG-10100)  3

Additional
- MATH-xxxxx Mathematics elective [not MATH-10000, MATH-15200, MATH-15300, or MATH-18000]  3–4
- ARAB-1xxx, CHIN-1xxx
- FREN-1xxx, GERMAN-1xxx
- HEBR-1xxx, ITAL-1xxx
- LATN-1xxx, SPAN-1xxx
- RUS-1xxx
- SOCI-10100 Introduction to Sociology  3
- TRLS-12500 Understanding Disability: Characteristics, Causes, Services  3
- EXKS-12000 Anatomy and Physiology I  4
- EXKS-12100 Anatomy and Physiology II  4

Total, general requirements  41–43

Professional health core courses
- SOCI-21500 Introduction to Contemporary Mental Health Issues  3
- HLTH-13901 Technology for the Professional Edge  3
- HLTH-15200 Introduction to Health and Physical Education  3
- HLTH-20200 Nutrition  3
- HLTH-21100 Health and Safety Needs of School-Age Children  3
- HLTH-22800 Human Sexuality  3
- HLTH-22900 Disease and Lifestyle  3
- HLTH-31500 Family Health Problems  3
- HLTH-33300 Development and Evaluation of Health Programs  3
- HLTH-35000 Psychoactive Drugs  3
- HLTH-42900 Tests and Measurement in Health Education  3

Total, professional health core  33

Professional health electives — A total of 9 credits selected from the following:
- PSYC-24100 Psychological Aspects of the Family (3)
- PSYC-32100 Abnormal Psychology (3)
- SOCI-31400 Sociology of Health and Medicine (3)
- SOCI-31600 Women and Health (3)
- HPS-20500 Critical Health Issues (3)
- HPS-36000 Front-Page Public Health: Policy and Epidemiology (3)
- HPS-10200 Medical Terminology (3)
- HLTH-11300 Personal Health (3)
- HLTH-12200 Emergency Health Care (1)
- HLTH-22400 Emergency Health Care Instructor (2)
- HLTH-22500 Alcohol and Alcoholism (3)
- HLTH-22700 Stress: Its Nature and Management (3)
- HLTH-31700 Community Health (3)
- HLTH-32200 Nutrition for the Older Adult (3)
- HLTH-33000 Health Promotion in the Workplace (3)
- HLTH-39900 Selected Topics in Health (1–3)
- HLTH-45200 Independent Study in Health (1–3)
- GERQ-10100 Introduction to Aging Studies (3)

Total, professional health electives  9

Professional education courses
- PSYC-21010 Educational Psychology  3
- SLPA-21900 Language/Literacy Development in Children Age 3 to 21  2
- SLPA-22900 Second Language Acquisition: Its Nature and Meaning for Educators  2
- HLTH-36000 Curriculum and Materials in Health Education  3
- HLTH-42000 Teaching Strategies in Health Education  3
- HLTH-44100 Student Teaching in Health Education  10
- HLTH-44800 Seminar in Health Education  2
- EDUC-34000 Social and Cultural Foundations of Education  3

Total, professional education  28

Free electives  7–9

Summary

General requirements (LA)  41–43
Professional health core  33
Professional health electives  9
Professional education  28
Free electives  7–9

Total, B.S. in health education (teaching)  120
B.S. in Health Education and Physical Education (Teaching)

The dual major in health education and physical education enables students to become certified to teach in two areas. Upon graduation, students are eligible for New York State provisional or initial teacher certification in both health education and physical education. This dual certification offers increased professional opportunities, and it meets the needs of students who desire to teach both health education and physical education in the public schools of New York State. Students who complete the dual major are eligible to apply for teacher certification after successfully completing the appropriate examinations. New York certification requires the New York State Teacher Certification Examinations; other states may require the Praxis examination or other designated state teaching examination.

Coursework includes strong preparation in the liberal arts, health and exercise sciences, physical education, teacher education, professional theory, and professional skills. A full semester of student teaching in the senior year is required. One of the two student teaching placements will be in Rochester, New York. It should be noted that because this program prepares students in two areas, there is relatively little room left for electives. For those students whose career interests lie within these areas, however, this program offers considerable depth in two highly related areas, within a challenging curriculum.

Medical clearance by Ithaca College’s health center is required for participation in any activity course. Students who do not have such clearance will not be able to complete the requirements for this degree program.

All candidates for teaching certification must attend a two-hour workshop on child abuse identification and prevention. The evening workshop is offered once each semester. For more information about certification requirements and for information about fingerprinting requirements, refer to the Department of Education, p. 142.

Special Academic Policy for Health Education and Physical Education (Dual Major)

Acceptance into and retention in the health education and physical education major is subject to compliance with the following academic standards:

1. Maintain a cumulative GPA of at least 2.50.
2. Maintain a minimum GPA of 2.75 after the sophomore year in the professional content and pedagogy health education core (PHED-23400, HLTH-15200, HLTH-20200, HLTH-21300, HLTH-22900, HLTH-21100, HLTH-31500, HLTH-35000, HLTH-36000, HLTH-42900, PHED-43900 or HLTH-43900, or HLTH-35000, and PHED-21200, PHED-23000, PHED-33000, PHED-33200, PHED-33300, and in the professional education component (PSYC-21010, SLPA-21900, SLPA-22900, PHED-44500, HLTH-14500, PHED-44800 or HLTH-44800 and TCED-34000).
3. Each of the aforementioned courses must be completed with at least a C (not C-). Failure to do so mandates repeating the course. The Ithaca College policy on repeating a course must be followed.
4. A student failing to meet the minimum standards in 1 and 2 above in any given semester will be placed on program academic warning and be given one semester to attain these standards. Students failing to meet these academic standards for two consecutive semesters or in any three semesters total will be subject to dismissal from the major.
5. No student will be allowed to enroll in an internship or student teaching (PHED-46000, HLTH-44900, PHED-44500, HLTH-44500, and PHED-44300 or HLTH-44300) unless he or she has met these standards in the previous semester.
6. Students who wish to do their student teaching any time during the senior year must file an application early in the spring of the junior year and receive approval from the Department of Health Promotion and Physical Education. One of the two student teaching placements will be in Rochester, New York. Students must present a current American Red Cross CPR and first aid card to the coordinator of student teaching prior to student teaching.

Requirements for the Major in Health Education and Physical Education (Teaching) — B.S.

General requirements (LA)

Computer science:
HLTH-13901 Technology for the Professional Edge 3

Mathematics elective — A total of 3-4 credits selected from the following:
MATH-xxxxx courses (not MATH-10000, MATH-15200, MATH-15300, or MATH-18000) 3-4

Multicultural elective — A total of 3 credits selected from the following:
POLT-14100 Power: Race, Sex, and Class 3
SOCI-10100 Introduction to Sociology 3
SOCI-11600 Introduction to Multicultural Studies 3
SOCI-20700 Race and Ethnicity 3
ANTH-10400 Cultural Anthropology 3
ANTH-12900 Introduction to Global Studies 3

Speech elective — A total of 3 credits selected from the following:
SPCM-11000 Public Communication 3
SPCM-11500 Business and Professional Communication 3
SPCM-14900 Small Group Communication 3
SPCM-14900 Fundamentals of Interpersonal Communication 3
SPCM-21800 Speech Communication for the Classroom Teacher 3

Writing electives — A total of 6 credits selected from the following:
WRTG-10600 Academic Writing I 3
WRTG-11100 Academic Writing II 3
WRTG-xxxxx Elective (not WRTG-10100) 3
Total: 18-19

Additional courses
ARAB-1xxxx, CHIN-1xxxx, Language elective — based on proficiency, 6 credits in
FREN-1xxxx, GERM-1xxxx, the same language other than English
HEBR-1xxxx, ITAL-1xxxx,
LATN-1xxxx, SPAN-1xxxx,
RUSS-1xxxx
Total: 6
Total, general requirements 24-25

Exercise science component (LA)

EXSS-12000 Anatomy and Physiology I 4
EXSS-12100 Anatomy and Physiology II 4
Total, exercise science component 8

Professional content and pedagogy: health education

PHED-23400 Fitness Applications for Health Promotion 4
HLTH-15200 Introduction to Health and Physical Education 3
HLTH-20200 Human Nutrition 3
HLTH-21100 Health and Safety Needs of Children 3
HLTH-21300 Wellness: Multicultural Perspectives on Health and
HLTH-22800 Human Sexuality 3
HLTH-31500 Family Health Problems 3
HLTH-35000 Psychoactive Drugs 3
HLTH-36000 Curriculum and Materials in Health Education 3
HLTH-42000 Teaching Strategies in Health Education 3
PHED-43900 Tests and Measurement in Physical Education or
HLTH-43900 Tests and Measurement in Health Education 3
Total: 34

Professional content and pedagogy: physical education

PHED-10100 Teaching Strategies in Physical Education 1
PHED-14400 Fundamentals of Dance and Movement 1
PHED-17800 Fundamental Movement Concepts in Gymnastics 1
PHED-20200 Teaching Goal-Oriented Games in Physical Education 1
PHED-20600 Teaching Fundamental Skills and Games in
Elementary Physical Education 2
PHED-21200 Motor Skill Development 3
PHED-22000 Teaching Movement Concepts in Elementary Physical
Education Curriculum 1
PHED-23500 Teaching Fitness in Physical Education 1
PHED-20400 Teaching Net/Wall Games in Physical Education 1
PHED-20500 Teaching Target and Fielding Games in Physical Education 1
PHED-20700 Teaching Outdoor Pursuits and Contemporary
Activities 1
PHED-20800 Teaching Individual and Contemporary Activities 1
PHED-33000 Adapted Physical Education and Sport 3
PHED-33200 Curriculum and Methods in Elementary School 3
PHED-33300 Physical Education 3
Total: 24
### B.S. in Community Health Education

The community health education major has two main objectives. The first is to provide professional preparation for those who plan health education careers in public or voluntary health organizations. The second is to provide a sound undergraduate educational foundation for graduate studies in community health education and other health-related professions. Students who choose this major must complete the nutrition promotion concentration or a planned interdisciplinary combination. Students who complete this major qualify to take the national examination to be certified as health education specialists.

#### Special Academic Status Policy for Community Health Education Majors

Acceptance into and retention in the community health education major is subject to compliance with the following academic standards:

- Maintain a cumulative GPA of at least 2.50.
- Maintain a minimum GPA of 2.75 after the sophomore year in the professional health core (HLTH-12200, HLTH-13200, HLTH-20200, HLTH-21300, HLTH-22700, HLTH-31700, HLTH-33300, HLTH-35000).
- Each of the aforementioned courses must be completed with at least a C (not C-). Failure to do so mandates repeating the course. The Ithaca College policy on repeating a course must be followed.
- A student failing to meet the minimum standards in the first two bulleted items listed above in any given semester will be placed on program academic warning and be given one semester to attain these standards. Students failing to meet these academic standards for two consecutive semesters or in any three semesters total will be subject to dismissal from the major.
- No student will be allowed to enroll in the professional practicum (HLTH-34900, HLTH-44900, HLTH-45300) unless he or she has met these standards in the previous semester and presented a current American Red Cross CPR and first aid card to the internship coordinator.

#### Requirements for the Major in Community Health Education — B.S.

##### General requirements (LA)

- **SDCI-10100** Introduction to Sociology 3
- **EXSS-12000** Anatomy and Physiology I 4
- **EXSS-12100** Anatomy and Physiology II 4
- **SPCM-xxxx** Speech elective 3
- **WRTG-10600** Academic Writing I or 3
- **WRTG-11100** Academic Writing II 3
- **WRTG-xxxx** Writing elective (not WRTG-10100) 3

##### Professional education component

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<td>Educational Psychology</td>
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<td>SLPA-21900</td>
<td>Language/Literacy Development in Children Age 3</td>
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<td>SLPA-22900</td>
<td>Second Language Acquisition: Its Nature and Meaning for Educators</td>
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<td>PHED-44500</td>
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<td>HLTH-44500</td>
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<td>PHED-44800</td>
<td>Professional Seminar in Physical Education (2) or</td>
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<td>HLTH-44800</td>
<td>Seminar in Health Education (2)</td>
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<tr>
<td>TCED-34000</td>
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Total, professional education component: 22

##### Liberal arts electives

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##### Free electives

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#### Summary

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<td>General requirements (LA)</td>
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<tr>
<td>Exercise science component</td>
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<tr>
<td>Professional content and pedagogy: health education</td>
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<tr>
<td>Professional content and pedagogy: physical education</td>
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<tr>
<td>Professional education component</td>
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<td>Liberal arts electives</td>
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<td>Free electives</td>
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<td>Total, B.S. in health education and physical education (teaching)</td>
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### Statistics elective — At least 3 credits selected from the following:

- **MATH-15500** Basic Statistical Reasoning (3)
- **MATH-24300** Statistics (3)
- **MATH-24400** Statistics with Probability (4) 3–4

### Psychology elective — A total of 3 credits selected from the following:

- **PSYC-10300** Introduction to General Psychology (3)
- **PSYC-10400** Introduction to Developmental Psychology (3)
- **PSYC-20300** Principles of General Psychology (3)
- **PSYC-20400** Principles of Developmental Psychology (3) 3

### Counseling elective — A total of 3 credits selected from the following:

- **SDCI-30800** Counseling Theory and Dynamics (3)
- **SDCI-30900** Group Counseling (3) 3

### Multicultural elective — A total of 3 credits selected from the following:

- **SDCI-11400** Introduction to Multicultural Studies (3)
- **SDCI-20700** Race and Ethnicity (3)
- **ANTH-12900** Introduction to Global Studies (3) 3

Total, general requirements (LA): 32–33

#### Professional health

- **HLTH-15200** Introduction to Health and Physical Education 3
- **HLTH-20200** Human Nutrition 3
- **HLTH-22700** Stress: Its Nature and Management 3
- **HLTH-33300** Development and Evaluation of Health Programs 3
- **HLTH-35000** Psychoactive Drugs 3

Total, professional health courses: 15

#### Health promotion core

- **HLTH-34900** Fieldwork in Health 0–6
- **HLTH-44900** Internship in Health 6–12
- **HLTH-45300** Supervised Research 0–3

Total, professional practicum: 12

#### Required concentration or planned interdisciplinary combination

The nutrition promotion concentration or a planned interdisciplinary combination (PIC) is required for graduation. Liberal arts courses taken to fulfill this requirement may be applied toward the 60-credit liberal arts requirement, thus increasing the available number of free elective credits. To fulfill this requirement, students have the following options:

1. Students may enroll in the nutrition promotion concentration.
2. Students may develop, with their adviser, a planned interdisciplinary combination (PIC) of courses that relate to their major field and/or point toward their vocational goals. The student must be accepted into a PIC no later than the second semester of the junior year. Before acceptance, an application must be completed and approved by the student's adviser, the department chair, and the dean. Requirements for a PIC are listed below.

#### Summary

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<thead>
<tr>
<th>Requirement Type</th>
<th>Credits</th>
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<td>General requirements</td>
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<tr>
<td>Professional health core</td>
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<td>Professional practicum</td>
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<td>Health promotion core</td>
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<td>Free electives</td>
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Total, B.S. in community health education: 120
Community Health Education Concentrations

Nutrition Concentration
This concentration is for individuals who are interested in nutrition promotion in a community, school, or worksite setting. Upon graduation, the student is employable as a nutrition educator working with children, athletes, adults, or the elderly. This program also prepares the student to pursue graduate work in clinical dietetics (for certification as a clinical dietitian), nutrition, and health. Courses with the prefix ICCU are offered by the Division of Nutritional Sciences at Cornell University.

Required courses
- HLTH-32200 Nutrition for the Older Adult 3
- HLTH-44200 Critical Assessment of Nutrition Programs 3

Nutrition electives — At least 9 credits selected from the following:
- BIOL-10600 Plants, People, and Food Production (3)
- HLTH-30200 Nutrition and Sport (3)
- HLTH-45300 Supervised Research (1–3)
- ICCU-20001 Vegetarian Nutrition (3)
- ICCU-24501 Social Science Perspectives on Food and Nutrition (3)
- ICCU-30601 Nutritional Problems of Developing Nations (3)
- ICCU-31501 Obesity and Regulation of Body Weight (3)
- ICCU-33100 Physiological and Biochemical Bases of Human Nutrition (4)

Mathematics elective
- MATH-xxxxx courses [not MATH-10000, MATH-15200, MATH-15300, or MATH-18000] 3–4

Professional health electives — At least 12 credits selected from the following:
- SDCI-21500 Introduction to Contemporary Mental Health Issues (3)
- SDCI-31600 Women and Health (3)
- HPS-11000 War, Hunger, and Genocide: An International Health Perspective (3)
- HPS-14000 Cyborgs, Clones, and Policy: New Technologies in Health and Medicine (3)
- HPS-21500 Introduction to Health Policy and Policy Making (3)
- HPS-22500 Health Communication (3)
- HPS-25000 International Health Issues (3)
- HPS-34000 Front-Page Public Health: Policy and Epidemiology (3)
- HLTH-20300 Consumer Health (3)
- HLTH-21100 Health and Safety Needs of School-Age Children (3)
- HLTH-22500 Alcohol and Alcoholism (3)
- HLTH-22800 Human Sexuality (3)
- HLTH-22900 Disease and Lifestyle (3)
- HLTH-31500 Family Health Problems (3)
- HLTH-42000 Teaching Strategies in Health Education (3)

Total, nutrition concentration 30–31

Planned Interdisciplinary Combination (PIC)
Students who have other areas of interest or vocational goals may plan, in consultation with their advisers, a combination of courses that relate to their needs. Examples are health care delivery, counseling, patient education, women’s health issues, and communication skills.

Required courses
- HLTH-22800 Human Sexuality 3
- HLTH-31500 Family Health Problems 3
- HLTH-42000 Teaching Strategies in Health Education 3

Total 9

Biology elective — A total of 3 credits selected from the following:
- BIOL-10400 Plants, People, and Food Production (3)
- BIOL-10800 The Human Organism (3)
- BIOL-11500 Essentials of Biology (3)

Mathematics elective
- MATH-xxxxx courses [not MATH-10000, MATH-15200, MATH-15300, or MATH-18000] 3–4

Sociology elective — A total of 3 credits selected from the following:
- SOCI-21500 Introduction to Contemporary Mental Health Issues (3)
- SOCI-31400 Sociology of Health and Medicine (3)
- SOCI-31600 Women and Health (3)

Professional health electives — A total of 3 credits selected from the following:
- HLTH-21100 Health and Safety Needs of School-Age Children (3)
- HLTH-20300 Consumer Health (3)
- HPS-11000 War, Hunger, and Genocide: An International Health Perspective (3)
- HPS-14000 Cyborgs, Clones, and Policy: New Technologies in Health and Medicine (3)
- HPS-21500 Introduction to Health Policy and Policy Making (3)
- HPS-22500 Health Communication (3)
- HPS-25000 International Health Issues (3)
- HPS-36000 Front-Page Public Health: Policy and Epidemiology (3)

Planned interdisciplinary combination electives
Total 18
Total, planned interdisciplinary combination 39–40

B.S. in Health Sciences
The health sciences degree program is designed to prepare students for graduate study in a variety of health professions. The major combines knowledge from several disciplines related to health and disease. The health core focuses on scientific facts and principles pertinent to personal and community health. The integration of courses from the behavioral sciences helps students understand the psychological and sociological determinants of health. Courses in the natural sciences provide a strong foundation for future health professionals. A practicum provides “real world” experiences linking education to service.

Health professionals must respect individual differences, communicate effectively, use analytic and computer skills, work collaboratively, and be sensitive to ethical issues. Coursework in this major provides students with these skills, while electives afford students the opportunity to direct their studies toward specific careers. Thus, this program provides excellent preprofessional preparation for students planning graduate study to become public health specialists, administrators, researchers, policy analysts, dietitians, nurses, chiropractors, occupational or physical therapists, physicians, physician assistants, or health care practitioners in related fields.

Special Academic Status Policy for Health Sciences Majors
Students will not be allowed to enroll in the professional practicum (HLTH-34900, HLTH-44900, or HLTH-45300) until they have presented a current American Red Cross CPR and first aid card to the internship coordinator.

Requirements for the Major in Health Sciences — B.S.

General requirements (LA)
- WRTG-10600 Academic Writing I (3) or WRTG-11100 Academic Writing II (3) 3

Writing elective — A total of 3 credits selected from the following:
- WRTG-20100 Persuasive Argument (3)
- WRTG-21100 Writing for the Workplace (3) 3

Mathematics elective — At least 3 credits selected from the following:
- MATH-10500 Mathematics for Decision Making (3)
- MATH-10600 Mathematics for Decision Making with Technology (4)
- MATH-10800 Calculus for Decision Making (4)
- MATH-11100 Calculus I (4) 3–4

Statistics elective — A total of 3 credits selected from the following:
- MATH-15500 Basic Statistical Reasoning (3)
- MATH-24300 Statistics (3)
- MATH-24400 Statistics with Probability (4) 3–4

Ethics elective — A total of 3 credits selected from the following:
- PHIL-21200 Introduction to Ethics (3)
- PHIL-23000 Bioethics (3) 3

Speech elective — A total of 3 credits selected from the following:
- SPCM-11000 Public Communication (3)
- SPCM-11500 Business and Professional Communication (3)
- SPCM-14000 Small Group Communication (3)
- SPCM-14900 Fundamentals of Interpersonal Communication (3) 3
### Psychology elective — A total of 3 credits selected from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC-10300</td>
<td>General Psychology</td>
</tr>
<tr>
<td>PSYC-10400</td>
<td>Introduction to Developmental Psychology</td>
</tr>
<tr>
<td>PSYC-20300</td>
<td>Principles of General Psychology</td>
</tr>
<tr>
<td>PSYC-20400</td>
<td>Principles of Developmental Psychology</td>
</tr>
</tbody>
</table>

### Diversity elective — A total of 3 credits selected from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLT-14100</td>
<td>Power: Race, Sex, and Class</td>
</tr>
<tr>
<td>SDCI-11600</td>
<td>Introduction to Multicultural Studies</td>
</tr>
<tr>
<td>SDCI-20700</td>
<td>Race and Ethnicity</td>
</tr>
<tr>
<td>ANTH-12900</td>
<td>Introduction to Global Studies</td>
</tr>
<tr>
<td>TRLS-12500</td>
<td>Understanding Disability: Characteristics, Causes, Services</td>
</tr>
<tr>
<td>GER-10100</td>
<td>Introduction to Aging Courses</td>
</tr>
</tbody>
</table>

### Natural science core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL-11900</td>
<td>Fundamentals of Biology I</td>
</tr>
<tr>
<td>BIOL-12000</td>
<td>Fundamentals of Biology II</td>
</tr>
<tr>
<td>EXSS-12000</td>
<td>Anatomy and Physiology I</td>
</tr>
<tr>
<td>EXSS-12100</td>
<td>Anatomy and Physiology II</td>
</tr>
<tr>
<td>EXSS-36000</td>
<td>Medical Science I</td>
</tr>
<tr>
<td>EXSS-36100</td>
<td>Medical Science II</td>
</tr>
</tbody>
</table>

### Health promotion core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLTH-13901</td>
<td>Technology for the Professional Edge (LA)</td>
</tr>
<tr>
<td>HPS-20500</td>
<td>Critical Health Issues (LA)</td>
</tr>
<tr>
<td>HLTH-21300</td>
<td>Wellness: Multicultural Perspectives on Health and Healing (LA)</td>
</tr>
<tr>
<td>HLTH-31700</td>
<td>Community Health (LA)</td>
</tr>
<tr>
<td>HPS-31500</td>
<td>Health Research and Analysis (LA)</td>
</tr>
<tr>
<td>HLTH-44400</td>
<td>Professional Leadership in Health (LA)</td>
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### Practicum — A total of 6 credits selected from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLTH-34900</td>
<td>Fieldwork in Health (1–6)</td>
</tr>
<tr>
<td>HLTH-44900</td>
<td>Internship in Health (6–12)</td>
</tr>
<tr>
<td>HLTH-45300</td>
<td>Supervised Research (1–3)</td>
</tr>
</tbody>
</table>

### Free electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>Total, practicum</td>
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</tbody>
</table>

### Required emphasis (health promotion, premedical, or nutrition)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>Total, practicum</td>
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</tbody>
</table>

### Social science core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH-12900</td>
<td>Introduction to Global Studies</td>
</tr>
<tr>
<td>ANTH-12100</td>
<td>Cultural Change (LA)</td>
</tr>
<tr>
<td>ANTH-12500</td>
<td>Race and Ethnicity (LA)</td>
</tr>
<tr>
<td>SSCI-13100</td>
<td>Deviant Behavior (LA)</td>
</tr>
<tr>
<td>HINT-10000</td>
<td>Health Sciences: Foundations and Careers</td>
</tr>
</tbody>
</table>

### Professional health courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HINT-10000</td>
<td>Health Sciences: Foundations and Careers</td>
</tr>
<tr>
<td>SPCM-22500</td>
<td>Health Communication (LA)</td>
</tr>
<tr>
<td>HPS-20500</td>
<td>Health Communication (LA)</td>
</tr>
<tr>
<td>HLTH-20200</td>
<td>Human Nutrition</td>
</tr>
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</table>

### Health promotion core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLTH-13901</td>
<td>Technology for the Professional Edge (LA)</td>
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<td>HPS-20500</td>
<td>Critical Health Issues (LA)</td>
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<tr>
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<td>Wellness: Multicultural Perspectives on Health and Healing (LA)</td>
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<td>HINT-31700</td>
<td>Community Health (LA)</td>
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<td>HINT-31500</td>
<td>Health Research and Analysis (LA)</td>
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<tr>
<td>HINT-44400</td>
<td>Professional Leadership in Health (LA)</td>
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<tr>
<td>Total</td>
<td>Total, practicum</td>
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<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>Total</td>
<td>Total, practicum</td>
</tr>
</tbody>
</table>

### Health Promotion Emphasis — 21 credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLTH-20300</td>
<td>Consumer Health (LA)</td>
</tr>
<tr>
<td>HLTH-22800</td>
<td>Human Sexuality (LA)</td>
</tr>
<tr>
<td>HLTH-22900</td>
<td>Disease and Lifestyle (LA)</td>
</tr>
<tr>
<td>HLTH-33300</td>
<td>Development and Evaluation of Health Programs</td>
</tr>
<tr>
<td>HLTH-35000</td>
<td>Psychoactive Drugs (LA)</td>
</tr>
</tbody>
</table>

### Premedical Emphasis — 28–29 credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>CHEM-12100</td>
<td>Principles of Chemistry</td>
</tr>
<tr>
<td>CHEM-12400</td>
<td>Experimental Chemistry I</td>
</tr>
<tr>
<td>CHEM-22200</td>
<td>Experimental Chemistry II</td>
</tr>
<tr>
<td>CHEM-22300</td>
<td>Quantitative Chemistry</td>
</tr>
<tr>
<td>BIOC-21100</td>
<td>Microbiology</td>
</tr>
<tr>
<td>CHEM-22100</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>CHEM-22200</td>
<td>Organic Chemistry II</td>
</tr>
<tr>
<td>PHYS-10100</td>
<td>Introduction to Physics I</td>
</tr>
<tr>
<td>PHYS-10200</td>
<td>Introduction to Physics II</td>
</tr>
<tr>
<td>PHYS-11700</td>
<td>Principles of Physics I</td>
</tr>
<tr>
<td>PHYS-7100</td>
<td>Principles of Physics II</td>
</tr>
</tbody>
</table>

### Nutrition Emphasis — 15–29 credits

#### Option 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM-11100</td>
<td>Fundamentals of Chemistry</td>
</tr>
<tr>
<td>CHEM-11200</td>
<td>Organic Chemistry and Biochemistry</td>
</tr>
<tr>
<td>BIOC-21100</td>
<td>Essentials of Biochemistry</td>
</tr>
</tbody>
</table>

#### Option 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM-11100</td>
<td>Fundamentals of Chemistry</td>
</tr>
<tr>
<td>CHEM-11200</td>
<td>Organic Chemistry and Biochemistry</td>
</tr>
<tr>
<td>BIOC-21100</td>
<td>Essentials of Biochemistry</td>
</tr>
</tbody>
</table>

### Additional requirements — A total of 6 credits selected from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLTH-32200</td>
<td>Nutrition and the Older Adult</td>
</tr>
<tr>
<td>HLTH-45300</td>
<td>Supervised Research</td>
</tr>
<tr>
<td>ICCU-20001</td>
<td>Vegetarian Nutrition</td>
</tr>
<tr>
<td>ICCU-24501</td>
<td>Social Science Perspectives of Food and Nutrition</td>
</tr>
<tr>
<td>ICCU-30601</td>
<td>Nutrition Problems of Developing Nations</td>
</tr>
<tr>
<td>ICCU-31501</td>
<td>Obesity and Regulation of Body Weight</td>
</tr>
<tr>
<td>ICCU-33100</td>
<td>Physiological and Biochemical Bases of Human Nutrition</td>
</tr>
</tbody>
</table>

### Minors

#### Coaching Minor

Open to students majoring in all disciplines except physical education and health education and physical education. This minor is designed to prepare students to coach one or two specific sports.

### Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHED-xxxxx</td>
<td>Sport Techniques* (1)</td>
</tr>
<tr>
<td>PHED-xxxxx</td>
<td>Professional Skills* (0.5–2) and/or</td>
</tr>
<tr>
<td>PHE-xxxxx</td>
<td>Intercollegiate Athletics* (0.5–1)</td>
</tr>
<tr>
<td>PHED-25050</td>
<td>Philosophy and Principles of Coaching</td>
</tr>
</tbody>
</table>

---

* Requires PHYS-12000 Freshman Laboratory (2 credits) and MATH-11100 as prerequisites
** Requires MATH-11200 as prerequisite

The premedical emphasis is driven by the curricular needs of students pursuing premedical graduate education and future clinical health preparation.

The nutrition emphasis contains two options. Option 1 is available to students wishing to pursue general nutritional science in their career preparation. Option 2 is strongly recommended for students interested in pursuing a registered dietitian postgraduate degree.

---

The health promotion emphasis is offered to students pursuing a health sciences degree and interested in basic health counseling and promotion.

---

Students in health sciences are required to declare one of the following three emphasis programs.

### Health Promotion Emphasis — 21 credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLTH-20300</td>
<td>Consumer Health (LA)</td>
</tr>
<tr>
<td>HLTH-22800</td>
<td>Human Sexuality (LA)</td>
</tr>
<tr>
<td>HLTH-22900</td>
<td>Disease and Lifestyle (LA)</td>
</tr>
<tr>
<td>HLTH-33300</td>
<td>Development and Evaluation of Health Programs</td>
</tr>
<tr>
<td>HLTH-35000</td>
<td>Psychoactive Drugs (LA)</td>
</tr>
</tbody>
</table>

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<td>Consumer Health (LA)</td>
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<tr>
<td>HLTH-22800</td>
<td>Human Sexuality (LA)</td>
</tr>
<tr>
<td>HLTH-22900</td>
<td>Disease and Lifestyle (LA)</td>
</tr>
<tr>
<td>HLTH-33300</td>
<td>Development and Evaluation of Health Programs</td>
</tr>
<tr>
<td>HLTH-35000</td>
<td>Psychoactive Drugs (LA)</td>
</tr>
</tbody>
</table>

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Students in health sciences are required to declare one of the following three emphasis programs.

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<td>Disease and Lifestyle (LA)</td>
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<tr>
<td>HLTH-33300</td>
<td>Development and Evaluation of Health Programs</td>
</tr>
<tr>
<td>HLTH-35000</td>
<td>Psychoactive Drugs (LA)</td>
</tr>
</tbody>
</table>
Nutrition Science Minor
Open to students majoring in all disciplines except community health education, health education, or health education and physical education. Students in health education or health education and physical education may complete a concentration in nutrition science by fulfilling the requirements of this minor.

Courses with the prefix ICCU- are offered by the Division of Nutritional Sciences at Cornell University.

Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI-3900</td>
<td>Counseling Theory and Dynamics or</td>
<td>3</td>
</tr>
<tr>
<td>HLTTH-2020</td>
<td>Nutrition and Sport</td>
<td>3</td>
</tr>
<tr>
<td>HLTTH-44200</td>
<td>Critical Assessment of Nutrition Programs</td>
<td>3</td>
</tr>
<tr>
<td>WRTG-21010</td>
<td>Persuasive Argument or</td>
<td></td>
</tr>
<tr>
<td>WRTG-21100</td>
<td>Writing for the Workplace</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Nutrition electives (from list below)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Professional health elective (from list below)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total, nutrition promotion minor</td>
<td>21</td>
</tr>
</tbody>
</table>

A total of 6 credits selected from the following nutrition courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC-21100</td>
<td>Essentials of Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM-11200</td>
<td>Fundamentals of Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM-12100</td>
<td>Principles of Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM-33100</td>
<td>Physiological and Biochemical Bases of Human Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

A total of 3 credits selected from the following health courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLTTH-2100</td>
<td>Health Promotion and the Older Adult</td>
<td>3</td>
</tr>
<tr>
<td>HLTTH-21500</td>
<td>Introduction to Health and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>HLTTH-22500</td>
<td>Alcohol and Alcoholism</td>
<td>3</td>
</tr>
<tr>
<td>HLTTH-22900</td>
<td>Disease and Lifestyle</td>
<td>3</td>
</tr>
<tr>
<td>HLTTH-31500</td>
<td>Family Health Problems</td>
<td>3</td>
</tr>
<tr>
<td>HLTTH-31700</td>
<td>Community Health</td>
<td>3</td>
</tr>
<tr>
<td>HLTTH-32700</td>
<td>Development and Evaluation of Health Programs</td>
<td>3</td>
</tr>
<tr>
<td>HLTTH-35000</td>
<td>Psychoactive Drugs</td>
<td>3</td>
</tr>
<tr>
<td>HLTTH-38000</td>
<td>Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>HLTTH-38200</td>
<td>Wellness: Multicultural Perspectives on Health and Healing</td>
<td>3</td>
</tr>
<tr>
<td>HLTTH-24000</td>
<td>Health Promotion and the Older Adult (3)</td>
<td>3</td>
</tr>
<tr>
<td>HLTTH-35000</td>
<td>Family Health Problems</td>
<td>3</td>
</tr>
<tr>
<td>HLTTH-35500</td>
<td>Psychology and Sport</td>
<td>3</td>
</tr>
<tr>
<td>HLTTH-35600</td>
<td>Nutritional Problems</td>
<td>3</td>
</tr>
<tr>
<td>HLTTH-35700</td>
<td>Professional health electives (from list below)</td>
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</tbody>
</table>

Professional health electives — A total of 6 credits selected from the following (with adviser's approval):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HLTTH-15200</td>
<td>Introduction to Health and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>HLTTH-20300</td>
<td>Consumer Health</td>
<td>3</td>
</tr>
<tr>
<td>HLTTH-21100</td>
<td>Health and Safety Needs of School-Age Children</td>
<td>3</td>
</tr>
<tr>
<td>HLTTH-21300</td>
<td>Wellness: Multicultural Perspectives on Health and Healing</td>
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<td>HLTTH-22400</td>
<td>Emergency Health Care Instructor</td>
<td>2</td>
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<tr>
<td>HLTTH-22500</td>
<td>Alcohol and Alcoholism</td>
<td>3</td>
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<tr>
<td>HLTTH-22700</td>
<td>Stress: Its Nature and Management</td>
<td>3</td>
</tr>
<tr>
<td>HLTTH-22900</td>
<td>Disease and Lifestyle</td>
<td>3</td>
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<td>HLTTH-24000</td>
<td>Health Promotion and the Older Adult</td>
<td>3</td>
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<tr>
<td>HLTTH-30200</td>
<td>Nutrition and Sport</td>
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<td>HLTTH-31500</td>
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<td>HLTTH-35000</td>
<td>Nutrition for the Older Adult</td>
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<td>HLTTH-35500</td>
<td>Psychoactive Drugs</td>
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<td>HLTTH-35600</td>
<td>Nutritional Problems</td>
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<tr>
<td>HLTTH-35700</td>
<td>Professional health electives (from list below)</td>
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</table>

Nutrition Promotion Minor
Open to students majoring in all disciplines except community health education, health education, or health education and physical education. Students in health education or health education and physical education may complete a concentration in nutrition promotion by fulfilling the requirements of this minor.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM-11100</td>
<td>Fundamentals of Chemistry</td>
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<tr>
<td>CHEM-11200</td>
<td>Organic Chemistry and Biochemistry</td>
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<tr>
<td>BIOC-21100</td>
<td>Essentials of Biochemistry</td>
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<tr>
<td>CHEM-11200</td>
<td>Principles of Chemistry</td>
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Option 1

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<td>BIOC-21100</td>
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Option 2

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<tr>
<td>BIOC-21100</td>
<td>Essentials of Biochemistry</td>
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</tbody>
</table>
CHEM-22100  Organic Chemistry (3)
CHEM-22200  Organic Chemistry (3)
CHEM-23200  Quantitative Chemistry (3)
BIOC-35300  Biochemistry I (3)

A total of 6 credits selected from the following:

BIOL-10400  Plants, People, and Food Production (3)
HLTH-30200  Nutrition and Sport (3)
HLTH-32200  Nutrition for the Older Adult (3)
HLTH-34900  Fieldwork in Health [1–4]
HLTH-45300  Supervised Research [1–3]
ICCU-20001  Vegetarian Nutrition (3)
ICCU-24301  Social Science Perspectives on Food and Nutrition (3)
ICCU-35601  Nutritional Problems of Developing Nations (3)
ICCU-31501  Obesity and Regulation of Body Weight (3)
ICCU-33100  Physiological and Biochemical Bases of Human Nutrition (4)

Additional requirements

HLTH-20200  Human Nutrition 3
HLTH-37000  Nutritional Applications of Biochemistry 1
HLTH-44200  Critical Assessment of Nutrition Programs 3
Total, nutrition science minor 22-29

PHYSICAL EDUCATION COURSES

Note: Coaching seminars and professional skill courses are identified by course number and title only.

PHED-10100  Teaching Strategies in Physical Education  NLA
Introduces students to basic pedagogical skills relative to the successful teaching of physical education in a school setting. Topics include, but are not limited to, lesson planning, voice projection, physical movement in the teaching area, and effective transitions. The use of videotaped mini-lessons throughout the semester will encourage students to practice these teaching techniques, as well as to develop reflective and analytical skills in relation to their teaching.
For physical education and health and physical education majors/coaching minors. 1 credit. (F-S-Y)

PHED-20500  Teaching Target and Fielding Games in Physical Education  NLA
The purpose of this course is to introduce students to a tactical approach to higher-level games play, focusing specifically on the offensive and defensive strategies of target and fielding games (e.g., softball, baseball, archery, golf, bowling). Corequisites: PHED-206000. 1 credit. (F-S-Y)

PHED-20600  Teaching Fundamental Skills and Games in Elementary Physical Education  NLA
This course offers a developmental perspective to the teaching of motor skills in the K–6 school physical education curriculum. Emphasis will be placed on the understanding and development of these skills as a basis for future dance, recreational, fitness, and gymnastics activities, with special focus placed on their role in the development of games play. Laboratory situations provide for practical application of skills and games concepts. Prerequisites: PHED-15200. 2 credits. (F-S-Y)

PHED-20700  Teaching Outdoor Pursuits and Contemporary Activities  NLA
This course serves as an introductory undergraduate course to acquaint students with content-related information for outdoor pursuits and adventure theory. This course prepares undergraduate students to teach adventure education in elementary and secondary physical education programs. Students will learn to use and implement a wide variety of outdoor equipment, as well as proper outdoor ethics, depending on the season and semester taken, emphasis may be placed on the acquisition of basic rock climbing, mountain biking, cross-country skiing, challenge course facilitation, and/or backcountry travel technique for different age groups and diverse populations. Prerequisites: HLTH-15200. 1 credit. (F-S-Y)

PHED-20800  Teaching Individual Activities in Physical Education  NLA
Introduces students to the basic principles involved in the planning, teaching, and assessment of a variety of individual activities taught as part of the secondary physical education curriculum. Activities include, but are not limited to, yoga, wrestling, personal defense, fencing, track/field, etc. Corequisites: PHED-23000. 1 credit. (F-S-Y)

PHED-21200  Motor Skill Development  NLA
Students will be introduced to the fundamental theories and principles related to the motor, cognitive, and affective development of humans throughout the life span, with emphasis on children and adolescents. Detailed analysis of fundamental movement skills and their relationship to effective, developmentally appropriate movement programs will be explored. Students will demonstrate critical analysis of movement programs and compare and contrast them with best practice. Laboratory experiences involving children and adolescents in school settings will allow students to observe the skills and theories in real-life situations. Prerequisites: HLTH-15200. 3 credits. (F-S-Y)

PHED-23000  Teaching Movement Concepts in the Elementary Physical Education Curriculum  NLA
Prepares future elementary school physical education teachers to select, plan, and implement developmentally appropriate activities. This course introduces students to the "skill theme approach" for teaching children physical education, with an emphasis on the development of movement concepts and their application and importance in helping students develop their movement skills and achieve the National Standards in Physical Education. Emphasis is on an applied understanding of how and what to teach; practical lab experiences are included in the course. Prerequisites: PHED-10100; PHED-21200. Corequisites: PHED-206000. 1 credit. (F-S-Y)

PHED-23400  Fitness Applications for Health Promotion  NLA
Incorporates basic kinesiological, biomechanical, and physiological principles and concepts with practical applications for physical activity, health-related fitness, and health promotion. Clinical procedures include body composition measurement, submaximal oxygen uptake testing, assessing blood pressure, calculating body mass indexes, and cholesterol screening. A major emphasis is in the assessment of health-related fitness and the prescription of various types of physical activities for children, adolescents, and adults. Prerequisites: EXSS-12000; EXSS-121000. 4 credits. (F-S-Y)

PHED-23500  Teaching Fitness in Physical Education  NLA
Introduces students to the teaching and assessment of fitness concepts to children in the K–12 school setting. Emphasis is placed on the practical application, teaching, and assessment of the components of physiological aspects of fitness to children. Topics include the contemporary goals of and background to fitness education, developmentally and instructionally appropriate principles for teaching and assessing fitness, the use of technology in the instruction and assessment of fitness, using various testing batteries, the reporting of fitness results, and the use of goal setting as a motivational tool for improving one’s fitness. This course will allow students to become nationally certified as a physical best health–fitness specialist. Corequisites: Prior or concurrent enrollment in PHED-25400. 1 credit. (F-S-Y)

PHED-25500  Philosophy and Principles of Coaching  NLA
The philosophy and principles of coaching young athletes. Emphasis is placed on development of a coaching philosophy through critical examination of issues relating to coaching. Coaching responsibilities, developmental characteristics of children and youth, and their implications for the conduct of athletic programs, instructional and administrative methods, effective design and conduct of practices, and enhancement of contest performance are also discussed. Prerequisites: Sophomore standing. 3 credits. (F-S-Y)

PHED-33000  Adapted Physical Education and Sport  NLA
Provides students with an understanding of individuals with disabilities. Students learn to adapt physical education activities to meet the abilities of an individual with special needs in order to provide a safe and successful learning experience. Topics addressed include, but are not limited to, philosophical approaches to teaching students with disabilities, legislation affecting the adapted physical education program, the process of identifying students with disabilities in the public school system, and development of the individual education plan. Laboratory experiences include working weekly with students...
HEALTH COURSES

HLTH-10500  Healthy Choices
Promotes healthy lifestyle choices to establish and maintain high levels of wellness and contribute positively to academic and personal achievement. Topics are contemporary issues and situations that college students commonly confront such as substance abuse, weight management, eating disorders, and sexuality. Not open to students who have taken HLTH-11300. Open to first-year students only. 1 credit. (F-S,Y)

HLTH-11300  Personal Health
Designed to provide expert knowledge about health and health care that is available to the individual. Emphasizes wellness and health promotion in areas that concern students such as exercise, stress, nutrition, weight management, contraception, intimate relationships, HIV infection, drugs, alcohol, and others. 3 credits. (P-S,Y)

HLTH-12200  Emergency Health Care
Provides emergency health care instruction in cardiopulmonary resuscitation and first aid. This course is strongly recommended for anyone interested in coaching, teaching, or camping. Successful completion of this course can result in American Red Cross certification in cardiopulmonary resuscitation and basic life support and standard first aid. 1 credit. (F-S, Y)
HLTH-12300 Community Cardiopulmonary Resuscitation (CPR) NLA
Trains individuals to act in emergency situations and to recognize and care for life-threatening respiratory or cardiac emergencies in infants, children, and adults. 0.5 credit. (S,Y)

HLTH-13901 Technology for the Professional Edge LA
Integration of instructional, communication, assessment, and computer concepts and skills necessary for the use of information technology in diverse physical activity and health settings. Includes introduction to the social and ethical issues inherent in the use of computers in health and school settings. 3 credits. (F-S,Y)

HLTH-15200 Introduction to Health and Physical Education NLA
Introduces students to the related disciplines of health education and physical education in United States K-12 public schools and society from historical and contemporary perspectives. Rationales for goals, standards, and national initiatives in each field will be stressed, as well as their relationship to the coordinated school health model. Students will explore the various duties of professionals in these fields as well as the variety of available career options. 3 credits. (F-S,Y)

HLTH-20200 Human Nutrition NS LA 1
An introduction to the field of human nutrition. Includes the study of human nutritional needs and the attainment of health through an adequate diet. Topics such as obesity, sport nutrition, eating disorders, and the use of nutritional supplements are critically reviewed. Issues relating to diet, ethnicity and health, world hunger, nutrition, and disease prevention are explored. The use of a computerized diet analysis database enables students to assess the adequacy of their own diets. Prerequisites: EXSS-12000, BIOL-11900, BIOL-12100, CHEM-11100, or CHEM-12100; sophomore standing. 3 credits. (F-S,Y)

HLTH-20300 Consumer Health LA
This course prepares students to understand health care from the consumer's perspective, including understanding the role of consumer theories, health behavior models, and the attitudes and activities of consumers in the health care industry. The philosophy and language of consumerism and the social, political, and ethical implications of consumerism in health are explored. The implications for policy and practice of the use of the consumerism model in health care are examined. Attention is given to existing research and theoretical models of insurance concepts, the individual purchase of health care, and newer consumer trends such as self-diagnosing, purchasing health products via the Internet, and the whole-scale industry movement toward consumer-directed health care. 3 credits. (F,Y)

HLTH-21100 Health and Safety Needs of School-Age Children SS LA
Information about the most prevalent health and safety issues in the lives of school-age children for students who are preparing to become teaching professionals. Both the etiology of risk behaviors and factors that promote resiliency are examined through a critical multicultural lens, at the individual, classroom, school, and community levels. Skills such as early identification of problems, making a referral, and other legal and ethical responsibilities are developed. Strategies for development of a healthful classroom and school environment are discussed. Prospective teachers learn to be advocates for healthy growth and development. Prerequisites: Sophomore standing. 3 credits. (F-S,Y)

HLTH-21300 Wellness: Multicultural Perspectives on Health and Healing LA
An overview of the dynamic nature of the wellness movement. Its historical, social, political, cultural, and economic variables are critically examined. A wide range of wellness modalities, including those that fall under manual, mind-body, herbal, movement, and bioelectrical fields of practice, are included. Cross-cultural paradigms of health and healing are examined and compared. Prevention of chronic disease and health promotion are integrated into the concept of wellness, and disease etiologies and treatments are presented from multiple perspectives. The implications of and opportunities for prevention specialists in schools and communities are emphasized. Prerequisites: Sophomore standing. 3 credits. (F-S,Y)

HLTH-22400 Emergency Health Care Instructor NLA
Training for entry-level instructors of American Red Cross cardiopulmonary resuscitation (CPR) for the professional rescuer, of community CPR, and of community first aid and safety. During the semester, students are required to complete the instructor candidate training segment that is offered at a time designated by the instructor. Includes teaching methods, materials, and practice. Prerequisites: Current American Red Cross CPR for the professional rescuer, community CPR, and community first aid and safety certificates. 2 credits. (F-S,Y)

HLTH-22500 Alcohol and Alcoholism SS LA 1
Designed to promote clear and critical thinking about the many implications of alcohol use within our society. An interdisciplinary approach is used to study a number of issues regarding the drug, alcohol, and the disease, alcoholism. Prerequisites: Sophomore standing. 3 credits. (F,Y)

HLTH-22700 Stress: Its Nature and Management LA 1
Overview of the nature and physiology of stress and techniques used to manage stress. Topics include stress physiology, social engineering, cognitive restructuring, conflict resolution, time management, self-help techniques, nutrition, exercise, and relaxation techniques such as meditation, progressive relaxation, and autogenic training. Online instruction comprises part of the course. Prerequisites: Any level-1 psychology course. 3 credits. (F-S,Y)

HLTH-22800 Human Sexuality SS LA 1
Promotes a critical perspective on contemporary issues associated with human sexuality. The importance of healthy behavioral practices and responsible decision making concerning sexuality is emphasized. Content areas include contraception and birth control, pregnancy and childbirth, sexually transmitted infections, gender and gender roles, ethnicity and sexuality, sexual anatomy and physiology, sexual response, sexual expression, sexual orientation, relationships, and sexuality over the life span. Prerequisites: Sophomore standing. 3 credits. (F-S,Y)

HLTH-22900 Disease and Lifestyle LA 1
Focuses on the leading causes of death and disability in the U.S. today, with emphasis on health promotion through awareness of risk factors associated with these diseases. Topics reviewed include symptoms, morbidity rates, mortality rates, diagnosis, treatment, prevention, and psychological and social aspects. Prerequisites: Sophomore standing. 3 credits. (S,Y)

HLTH-24000 Health Promotion and the Older Adult LA 1
Health promotion and prevention strategies that allow people to extend and improve the quality of their lives. Through an interdisciplinary approach, health-related factors that affect older persons as they age are studied. Prerequisites: HLTH-11300 or GERO-10100. 3 credits. (S,O)

HLTH-30200 Nutrition and Sport LA
A study of the nutritional needs of the athlete, including special requirements for carbohydrates, lipids, protein, fluids, vitamins, and minerals. Topics including ergogenic aids; energy and nutrient needs prior to, during, and after an athletic event; and methods of weight gain and loss. Current research in nutrition and performance are reviewed and critiqued. Prerequisites: HLTH-20200, 3 credits. (F-S,Y)

HLTH-31500 Family Health Problems SS LA
Theory and research on family composition and its dynamic nature are critically examined with research and surveillance data on youth and families. Issues of identity, gender, race, class, sexual orientation, socioeconomic status, and community are related to family health. Preference is given to health education and physical education majors. Prerequisites: Major or minor; junior standing. 3 credits. (S,Y)

HLTH-31700 Community Health LA
Provides an overview of community development strategies most frequently used in health promotion and health education programs. Emphasis is placed upon the processes of community organizing and developing critical awareness/consciousness as educational methods in public health. The course is designed to provide students with theoretical foundations, methods, and skills essential to professional community health education practice. Prerequisites: HLTH-21300, 3 credits. (F,Y)

HLTH-32200 Nutrition for the Older Adult LA 1
Introduces various aspects of aging that involve consideration of nutrition. Emphasis is placed on the physiological and psychological changes that may alter food intake, affect nutrient utilization, and result in different nutrient requirements. Ways that the nutritional status of older adults is affected by prescription medications, chronic disease, poverty, altered mental status, social isolation, and/or physical disabilities are examined. Prerequisites: HLTH-20200, 3 credits. (F,Y)

HLTH-33000 Health Promotion in the Workplace NLA
Development of a hierarchy of program needs and objectives for worksite health promotion. Students design needs assessment instruments and develop work programs based on the needs identified by the population surveyed. The course also addresses issues surrounding program evaluation. Prerequisites: PSYC-33400, HLTH-11300, or MKTG-31200. 3 credits. (S,Y)
Health Policy Studies

HLTH-3300 Development and Evaluation of Health Programs
Prepares students with background information on how to design, implement, and evaluate health education and health promotion programs. “Quality of life” issues are evaluated to establish links between social problems and specific health problems. Several methods are employed to evaluate these programs. Prerequisites: HLTH-15200; HLTH-22500, HLTH-22700, HLTH-22800, or HLTH-22900. 3 credits. (F/Y)

HLTH-34900 Fieldwork in Health
Practical experiences in public, voluntary, or commercial health agencies. Provides the opportunity to become involved in various agency functions. Prerequisites: Junior standing; permission of department chair. 1–6 credits. (F-S-Y)

HLTH-35000 Psychoactive Drugs
Promotes critical thinking about many implications of the use of mind-altering drugs within our society. An interdisciplinary approach is used to study a number of issues regarding drugs, society, and human behavior. Prerequisites: Junior standing. 3 credits. (F-S-Y)

HLTH-36000 Curriculum and Materials in Health Education
Examination of the philosophical, theoretical, and practical aspects of curriculum development related to health program planning. Consideration is given to curricular scope and sequence. Students demonstrate their ability to develop unit plans, block calendars, and lesson plans. Existing prepackaged curriculum models are evaluated. Prerequisites: PSYC-21010; 9 credits in HLTH-xxxxx courses. 3 credits. (F-S-Y)

HLTH-37000 Nutritional Applications of Biochemistry
Study of the relationship of biochemistry to nutrition through investigation of current research topics. The emphasis in this seminar is on exploring the biochemical evidence to support or refute current theories in nutrition. Prerequisites: HLTH-22000, concurrent or prior enrollment in BIOC-21100 or BIOC-35300. 1 credit. (F-Y)

HLTH-39900–HLTH-39999 Selected Topics in Health
Topics of current interest to faculty and students. Experimental courses are offered under this course number and title. This course may be repeated for credit for different selected topics. Prerequisites: As appropriate to topics. 1–3 credits. (IRR)

HLTH-42000 Teaching Strategies in Health Education
Designed for prospective health educators as a comprehensive background for health instruction in elementary, secondary, and community settings. Students acquire the knowledge and skills necessary to plan, deliver, and assess learning experiences and activities incorporating strategies that target multiple intelligences, learner diversity, cooperative education, curriculum integration, and skill acquisition as they relate to health education. Prerequisites: HLTH-33000 or HLTH-36000. 3 credits. (F-S-Y)

HLTH-43900 Tests and Measurement in Health Education
Prepares class members to assess student learning in K–12 health education settings. Through a combination of lecture, labs, discussion, and field-based activities, opportunities are provided to understand and apply current educational testing and evaluation procedures. Course content includes study of the criteria for selection of tests, application of statistical procedures, construction and analysis of assessment tools, procedures for classification and grading of students, and program assessment techniques. Credit will not be granted for both this course and PHED-43900. Prerequisites: PHED-33200, HLTH-33300, or HLTH-36000. 3 credits. (F-S-Y)

HLTH-44100 Student Teaching in Health Education
Observation and supervised student teaching. Assignment to approved cooperating schools full-time for one semester in the senior year. Required of all students preparing to teach health education in elementary or secondary schools. Prerequisites: Current American Red Cross CPR and first aid card; PSYC-21010; HLTH-42000; TCED-34000. 10 credits. (F-S-Y)

HLTH-44000 Professional Leadership in Health
Study of the science of leadership and its application in a variety of health settings. Ethical, supervisory, and strategic issues are explored alongside methods for their application in health agencies. Effective practices and principles are taught to demonstrate how a leader influences others to accomplish a mission, task, or objective, and directs a health organization or agency in a way that makes it cohesive and value focused. Emphasis on motivating and leading teams of allied health professionals. The Internet and other digital tools are used to develop and demonstrate innovative leadership skills. Prerequisites: HLTH-31700; HPS-31500. 3 credits. (S,Y)

HLTH-44500 Student Teaching in Health Education (dual major)
Observation and supervised student teaching. Assignment to approved public schools full-time for a half semester in the senior year. Experience in structured observation, classroom assisting, and direct instruction; additional experience in planning, conferencing, and related school duties outside regular class periods. Individual conferences are held with Ithaca College supervisors of field experiences. Required of all dual health education and physical education majors. Prerequisites: Current American Red Cross CPR and first aid card; PSYC-21010; HLTH-36000; HLTH-42000; TCED-34000. 5 credits. (F-S-Y)

HLTH-44800 Seminar in Health Education
An opportunity for student teachers or internship participants to analyze and discuss individual and general problems related to their experiences. Current trends and issues confronting the prospective health education professional, such as issues regarding changes in the profession, teaching credentials, and job opportunities, are also addressed. Corequisites: HLTH-44100 or HLTH-44900. 2 credits. (F-S-Y)

HLTH-44900 Internship in Health
Supervised, full-time experience in a health agency during the summer or regular academic semester. Content of internship should reflect the student's concentration area (i.e., aging studies, substance abuse services, worksite health promotion, nutrition, or PIC). Prerequisites: Current American Red Cross CPR and first aid card; junior or senior standing; permission of department chair. 6–12 credits. (F-S-Y)

HLTH-45200–HLTH-45299 Independent Study in Health
An individual study program for the investigation of special problems in the field of health. A written report is required. Prerequisites: Senior standing; permission of instructor and department chair. 1–3 credits. (F-S-Y)

HLTH-45300 Supervised Research
Empirical research on a health topic selected in consultation with instructor. A written report is required. Course may be repeated for up to 6 credits. Prerequisites: At least three courses in health; permission of instructor and department chair. 1–3 credits. (F-S-Y)

B.A. in Health Policy Studies
Health policy studies is a multidisciplinary and interdisciplinary program that offers the opportunity to study policy and cultural issues related to health and health care at the regional, national, and international levels. The major is a broad-based, liberal, and interconnected course of study involving social, political, economic, and cultural research and analyses.

In addition to the required and elective courses in this degree program, students must complete a minor or double major of their choice and an eight-week internship in a health policy setting, usually during the summer following the junior year. Graduates of this program are well prepared to serve as policy analysts with government agencies, lobby groups, legislative offices, health facilities, private corporations, international health agencies, health activist organizations, and health policy institutes.

Requirements for the Major in Health Policy Studies — B.A.
Specific requirements

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>Introduction to Health Policy and Policy Making</td>
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<td>HPS-33500</td>
<td>Principles of Health Economics</td>
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<td>HPS-33510</td>
<td>Legal and Ethical Issues in Health Policy</td>
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<td>HPS-39100</td>
<td>Health Policy Internship</td>
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<td>HPS-41500</td>
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Total, specific requirements: 76
### Health Care Management

#### Restricted electives — Select two of the following (6 credits), no more than one may be at the 100 level.

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<tr>
<td>HPS-11000</td>
<td>War, Hunger, and Genocide: An International Health Perspective (3)</td>
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<td>HLT-20300</td>
<td>Consumer Health (3)</td>
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<td>HPS-13000</td>
<td>Healthy Viewings: Media and Health (3)</td>
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<tr>
<td>HPS-14000</td>
<td>Cyber, Clones, and Policy: New Technologies in Health and Medicine (3)</td>
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- **Total, restricted electives:** 6

#### Health promotion core

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<td>HPS-20500</td>
<td>Critical Health Issues (3)</td>
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<td>Wellness: Multicultural Perspectives on Health and Healing (3)</td>
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<td>HLT-31700</td>
<td>Community Health (3)</td>
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<td>HPS-31500</td>
<td>Health Research and Analysis (3)</td>
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<tr>
<td>HLT-444000</td>
<td>Professional Leadership in Health (3)</td>
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- **Total, health promotion core:** 18

#### Health policy electives —

Select two of the following courses (6 credits); no more than one may be at the 100 level.

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<th>Course Code</th>
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<td>Environmental Biology (3)</td>
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<td>BIOL-10600</td>
<td>Plants, People, and Food Production (3)</td>
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<td>BIOL-10700</td>
<td>Human Genetics (3)</td>
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<tr>
<td>BIOL-10800</td>
<td>The Human Organism (3)</td>
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<td>BIOL-10900</td>
<td>Life in the Ocean (3)</td>
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<td>BIOL-27800</td>
<td>Environmental Health and Medicine (3)</td>
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<tr>
<td>BIOL-36100</td>
<td>Social Welfare (3)</td>
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<tr>
<td>POLT-36200</td>
<td>Theory and Politics of Public Policy (3)</td>
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<tr>
<td>POLT-36400</td>
<td>Law and Public Policy (3)</td>
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<tr>
<td>POLT-36500</td>
<td>The Politics of Health (3)</td>
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<tr>
<td>POLT-36600</td>
<td>Environmental Politics (3)</td>
</tr>
<tr>
<td>POLT-37000</td>
<td>Selected Topics in Public Policy (3)</td>
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<tr>
<td>PHIL-2xxx</td>
<td>Philosophy elective (200 level or higher) (3)</td>
</tr>
<tr>
<td>SPCM-22500</td>
<td>Health Communication (3) or</td>
</tr>
<tr>
<td>HPS-22500</td>
<td>Health Communication (3)</td>
</tr>
<tr>
<td>HPS-32600</td>
<td>Health Planning and Administration (3)</td>
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<tr>
<td>HPS-36000</td>
<td>Front-Page Public Health: Policy and Epidemiology (3)</td>
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<tr>
<td>SOCI-21500</td>
<td>Introduction to Contemporary Mental Health Issues (3)</td>
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<tr>
<td>SOCI-31400</td>
<td>Sociology of Health and Medicine (3)</td>
</tr>
<tr>
<td>SOCI-31600</td>
<td>Women and Health (3)</td>
</tr>
<tr>
<td>SOCI-37600</td>
<td>Poverty (3)</td>
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<tr>
<td>ANTH-38000</td>
<td>Medical Anthropology (3)</td>
</tr>
<tr>
<td>HLTH-22500</td>
<td>Alcohol and Alcoholism (3)</td>
</tr>
<tr>
<td>HLTH-22900</td>
<td>Disease and Lifestyle (3)</td>
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</table>

- **Total, health policy electives:** 6

#### Requirements outside major department —

In the School of Humanities and Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>ECON-12200</td>
<td>Principles of Microeconomics (3)</td>
</tr>
<tr>
<td>POLT-10100</td>
<td>U.S. Politics (3) or</td>
</tr>
<tr>
<td>POLT-10300</td>
<td>U.S. and the World (3)</td>
</tr>
<tr>
<td>POLT-12900</td>
<td>Introduction to Global Studies (3) or</td>
</tr>
<tr>
<td>ANTH-12900</td>
<td>Introduction to Global Studies (3) or</td>
</tr>
<tr>
<td>HPS-12900</td>
<td>Introduction to Global Studies (3) or</td>
</tr>
<tr>
<td>POLT-14100</td>
<td>Power: Race, Sex, and Class (3) or</td>
</tr>
<tr>
<td>POLT-14200</td>
<td>Ideas and Ideologies (3)</td>
</tr>
<tr>
<td>MATH-15500</td>
<td>Basic Statistical Reasoning (3) or</td>
</tr>
<tr>
<td>MATH-24300</td>
<td>Statistics (3)</td>
</tr>
<tr>
<td>PHIL-21200</td>
<td>Introduction to Ethics (3) or</td>
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<td>PHIL-23000</td>
<td>Bioethics (3)</td>
</tr>
<tr>
<td>SOCI-10100</td>
<td>Introduction to Sociology (3) or</td>
</tr>
<tr>
<td>ANTH-10400</td>
<td>Cultural Anthropology (3)</td>
</tr>
<tr>
<td>WRTG-10600</td>
<td>Academic Writing I (3) or</td>
</tr>
<tr>
<td>WRTG-11100</td>
<td>Academic Writing II (3)</td>
</tr>
<tr>
<td>WRTG-20100</td>
<td>Persuasive Argument</td>
</tr>
<tr>
<td>WRTG-20500</td>
<td>Personal Essay</td>
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</table>

In the Gerontology Institute

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>GERO-10100</td>
<td>Introduction to Aging Studies (3)</td>
</tr>
<tr>
<td>GERO-31900</td>
<td>Aging and Social Policy (3)</td>
</tr>
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- **Total, requirements outside department:** 36

**Summary**

<table>
<thead>
<tr>
<th>Specific requirements</th>
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<tbody>
<tr>
<td>Restricted electives</td>
<td>6</td>
</tr>
<tr>
<td>Health promotion core</td>
<td>18</td>
</tr>
<tr>
<td>Health policy electives</td>
<td>6</td>
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<tr>
<td>Required minor</td>
<td>15–24</td>
</tr>
<tr>
<td>Requirements outside department</td>
<td>36</td>
</tr>
<tr>
<td>Free electives</td>
<td>18–27</td>
</tr>
</tbody>
</table>

**Total, B.A. in health policy studies:** 124

### B.S. in Health Care Management

The health care management degree program is designed to prepare students to manage the sustainable delivery of clinical health care within a framework that seeks to reduce and manage errors, costs, and demands on the supply chain. The program in health care management produces professionals who understand not only the financial transactions in the health care market but also the public policy, government, science and technology, and culture behind the institution of health care. Graduates of this program are well prepared to serve as administrators in health care organizations, insurance companies, and health care consulting firms.

In addition to the required and elective courses in this degree program, students must complete a minor in the School of Business, in either management or business. Students who choose the management minor are prepared to apply to Ithaca College’s M.B.A. program upon graduation. Long-term care emphasis is an option for students seeking to work in health facilities providing care to the aging population.

#### Requirements for the Major in Health Care Management — B.S.

**General requirements (LA)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WRTG-10600</td>
<td>Academic Writing I (3)</td>
</tr>
<tr>
<td>WRTG-11100</td>
<td>Academic Writing II (3)</td>
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<tr>
<td>GERO-10100</td>
<td>Introduction to Aging Studies</td>
</tr>
<tr>
<td>PHIL-21200</td>
<td>Introduction to Ethics (3) or</td>
</tr>
<tr>
<td>PHIL-23000</td>
<td>Bioethics (3)</td>
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</table>

**Math elective — A total of 4 credits selected from the following:**

<table>
<thead>
<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>MATH-10700</td>
<td>Fundamentals of Applied Calculus (4)</td>
</tr>
<tr>
<td>MATH-10900</td>
<td>Calculus for Decision Making (4)</td>
</tr>
<tr>
<td>MATH-11100</td>
<td>Calculus I (4)</td>
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</table>

**Statistics elective — A total of 4 credits selected from the following:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>MATH-14400</td>
<td>Business Statistics (4)</td>
</tr>
<tr>
<td>MATH-24400</td>
<td>Statistics with Probability (4)</td>
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**Communication elective — A total of 3 credits selected from the following:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>SPCM-11500</td>
<td>Public Communication (3)</td>
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<tr>
<td>SPCM-11900</td>
<td>Business and Professional Communication (3)</td>
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</table>

**Economics**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ECON-12100</td>
<td>Microeconomics (3)</td>
</tr>
<tr>
<td>ECON-12200</td>
<td>Macroeconomics (3)</td>
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**Total, economics:** 3

**Diversity elective — A total of 3 credits selected from the following:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>POLT-14100</td>
<td>Power: Race, Sex, and Class (3)</td>
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<tr>
<td>SOCI-11600</td>
<td>Introduction to Multicultural Studies (3)</td>
</tr>
<tr>
<td>SOCI-20700</td>
<td>Race and Ethnicity (3)</td>
</tr>
<tr>
<td>ANTH-10400</td>
<td>Cultural Anthropology (3)</td>
</tr>
<tr>
<td>TRLS-12500</td>
<td>Understanding Disability: Characteristics, Causes, Services (3)</td>
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- **Total, general requirements:** 29

#### Health promotion core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HPS-20500</td>
<td>Critical Health Issues [LA]</td>
</tr>
<tr>
<td>HPS-31500</td>
<td>Health Research and Analysis [LA]</td>
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<tr>
<td>HLT-13901</td>
<td>Technology for the Professional Edge [LA]</td>
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<tr>
<td>HLT-21300</td>
<td>Wellness: Multicultural Perspectives on Health and Healing [LA]</td>
</tr>
<tr>
<td>HLT-31700</td>
<td>Community Health [LA]</td>
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<tr>
<td>HLT-444000</td>
<td>Professional Leadership in Health [NLA]</td>
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</table>

- **Total, health promotion core:** 78
### Health Care Management

#### Health care management core
- HPS-10200 Medical Terminology (NL) 3
- HPS-21500 Introduction to Health Policy (LA) 3
- HPS-22500 Health Communication (LA) 3
- HPS-32100 Financial Aspects of Health Care Management (NL) 3
- HPS-32600 Health Planning and Administration (NL) 3
- HPS-33510 Legal and Ethical Issues in Health (LA) 3
- HLTH-20300 Consumer Health (LA) 3
- Total, health care management core 21

#### Professional Practicum – A total of 6 credits selected from the following:
- HLTH-34900 Fieldwork in Health 5–6
- HLTH-44900 Internship in Health 4–12
- HLTH-45300 Supervised Research 5–3
- Total, practicum 6

#### Free electives — A total of 4–28 credits; 4–6 credits must be LA designation, with the prefixes HLTH, HPS, OR HPEG

### Business minor — A total of 18 credits selected from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACCT-22500</td>
<td>Financial Accounting (3)</td>
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<tr>
<td>ACCT-22600</td>
<td>Management Accounting (3)</td>
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<tr>
<td>INTB-26500</td>
<td>International Business Opportunities (3)</td>
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<tr>
<td>MGMT-20600</td>
<td>Organizational Behavior and Management (3)</td>
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<tr>
<td>FINA-31100</td>
<td>Business Finance (3)</td>
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<tr>
<td>MKTG-31200</td>
<td>Principles of Marketing (3)</td>
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<td>HRM-32000</td>
<td>Applied Ethical Issues in Management (3)</td>
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<td>PROD-34500</td>
<td>Operations Management (3)</td>
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<td>GBUS-20300</td>
<td>Legal Environment of Business (3)</td>
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<td>MGMT-24000</td>
<td>Business Systems and Technology (3)</td>
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#### Management minor:

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT-22500</td>
<td>Financial Accounting (3)</td>
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<tr>
<td>ACCT-22600</td>
<td>Management Accounting (3)</td>
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<tr>
<td>MGMT-20600</td>
<td>Organizational Behavior and Management (3)</td>
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<tr>
<td>MGMT-24000</td>
<td>Business Systems and Technology (3)</td>
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<tr>
<td>FINA-31100</td>
<td>Business Finance (3)</td>
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<tr>
<td>MKTG-31200</td>
<td>Principles of Marketing (3)</td>
<td></td>
</tr>
<tr>
<td>PROD-34500</td>
<td>Operations Management (3)</td>
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</tr>
<tr>
<td>GBUS-20300</td>
<td>Legal Environment of Business (3)</td>
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<td>Total, minor</td>
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</table>

#### Long-term care emphasis (elective credits — not required for major)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLTH-24000</td>
<td>Health Promotion for the Older Adult (LA)</td>
<td>3</td>
</tr>
<tr>
<td>GER-22800</td>
<td>Sociology of Aging (LA)</td>
<td>3</td>
</tr>
<tr>
<td>GER-31900</td>
<td>Aging and Social Policies (LA)</td>
<td>3</td>
</tr>
<tr>
<td>GER-22500</td>
<td>The Long-Term Care System (LA)</td>
<td>3</td>
</tr>
<tr>
<td>GER-39900</td>
<td>Selected Topics in Social Gerontology (LA)</td>
<td>3</td>
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<tr>
<td>Total, long-term care emphasis</td>
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</tbody>
</table>

#### Summary

- General requirements 29
- Health promotion core 18
- Health care management core 21
- Practicum 6
- Free and restricted electives 4–28
- Business or management minor 18–24
- Total, B.S. in health care management 120

### Health Communication Minor

The interdisciplinary minor in health communication is administered by the Department of Speech Communication and the Health Communication Steering Committee, which consists of one faculty member from each of the following departments: health promotion and physical education; communication management and design; and speech communication. It involves coursework from three schools of the College and is designed to allow any student the opportunity to learn more about the complexities of communication in health care and health promotion.

For more information on this minor, see the Division of Interdisciplinary and International Studies on p. 262.

### Health Services Administration Minor

Open to students majoring in all disciplines except health services administration. This minor includes coursework in both health services administration and business. It is designed for students interested in a focused set of courses that will introduce them to the management issues and skills in health-related organizations. The minor includes a practical field experience in a local health organization and an elective for pursuing a specialized area of interest.

#### Curriculum

**Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPS-20500</td>
<td>Critical Health Issues</td>
<td>3</td>
</tr>
<tr>
<td>HPS-32600</td>
<td>Health Planning and Administration</td>
<td>3</td>
</tr>
<tr>
<td>HPS-39600</td>
<td>Fieldwork in Health Services Administration</td>
<td>3</td>
</tr>
<tr>
<td>HPS-43000</td>
<td>Health Care Law</td>
<td>3</td>
</tr>
<tr>
<td>MGMT-22000</td>
<td>Principles of Management</td>
<td>3</td>
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<tr>
<td>GBUS-20000</td>
<td>Legal Environment of Business</td>
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<tr>
<td>Total, minor</td>
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</table>

Choose one of the following:

- HPS-34000 Managed Health Care (3)
- HPS-35000 Communication in Health Service Organizations (3)
- HPS-34000 Front-Page Public Health Policy and Epidemiology (3)
- GERO-41400 Long-Term Care Administration (3)
- Total, health services administration minor 21

### Integrative Health Studies Minor

An interdisciplinary minor open to all students. Courses offered by multiple departments across campus are designed to facilitate the study of complementary and alternative health modalities and their history, theory, cultural contexts, economics, and uses to promote wellness and prevent disease. The minor complements the study of any allied health field, and enriches the perspective of any student interested in his or her own well-being and health and medicine as they interact with culture, economics, politics, and science.

#### Curriculum

**Requirements**

- Introductory course (choose one)
  - HLTH-21300 Wellness: Multicultural Perspectives on Health and Healing (3) or ANTH-28300 Integrative Health Care in America (3) 3

- Core Area
  - EXSS-36400 Contemporary and Alternative Therapies 3

- Political, economic, and policy issues
  - At least 3 credits from the following:
    - HPS-20500 Critical Health Issues (3) or HPS-25000 International Health Issues (3) or ECON- or HPS-30400 Economics of Health Care (3) or SPCH- or HPS-25200 Health Communication (3) 3

#### Cultural and historical foundations

- At least 3 credits from the following:
  - ANTH-38000 Medical Anthropology (3) or SOCIO-31400 Sociology of Health and Medicine (3) or SOCIO-31600 Women and Health (3) 3

- Electives — At least 3 credits selected from the following:
  - RLST-22100 Religion and Depth Psychology (3) or HLTH-22700 Stress: Its Nature and Management (3) or RLST-25200 Introduction to Mysticism (3) or MUMC-41000 Feldenkrais (1) 3

- Capstone experience — At least 3 credits selected from the following:
  - xxxxxxx Independent Study (3) or xxxxxxx Fieldwork/Internship (3) and 3 credits to be selected from any of the above areas 3–6
  - Total, integrative health studies minor 21

### Clinical Affiliations

A list of approved sites may be obtained through the Office of Experiential Learning (oei@ithaca.edu).
HEALTH POLICY STUDIES COURSES

HPS-10000 Introduction to the Vocabulary of Medicine NLA Provides an overview of medical terminology for students whose field of study is nonclinical in nature. The course is primarily self-instructional, using a programmed text and weekly testing of material covered. Not open to students who have taken HPS-10200. 1 credit. (F,Y)

HPS-10200 Medical Terminology NLA The language of medicine is explored through study of the structure, use, and pronunciation of medical terms used to describe human anatomy, disease conditions, diagnostic tests, and treatment methods. Not open to students who have taken HPS-10000. 3 credits. (F-S,Y)

HPS-11000 War, Hunger, and Genocide: An International Health Perspective LA An investigation of the cost — human and economic — of organized violence, including genocide, and the efforts being made to ameliorate or eliminate the devastation. Particular emphasis is placed on the role that can be played by health care professionals who believe that war may be a preventable phenomenon that can be eradicated by traditional public health methods that have triumphed over other major health problems in the past. 3 credits. (S,Y)

HPS-12900 Introduction to Global Studies SS LA Examines global issues, such as population, resources, food and hunger, peace and national security, health and environment, and international development, from cross-cultural and multidisciplinary perspectives. Readings and discussions demonstrate the interconnections between these issues and the need for industrial and nonindustrial countries to recognize their interdependence. Students are encouraged to be aware of current international events, especially those involving health issues that may have an impact upon their lives. Students enrolled in this course cannot receive credit for POLI-12900 or ANTH-12900. 3 credits. (IRR)

HPS-13000 Healthy Viewings: Media, Medicine, and Health LA Representations of medicine and health in popular culture. The meanings of these representations are studied in relationship to the building of stereotypes, development of policies, and framing of arguments in public discourse. Course includes extensive screening of examples from the media. 3 credits. (IRR)

HPS-14000 Cyborgs, Clones, and Policy: New Technologies in Health and Medicine LA Investigation and analysis of new medical and health technologies in the changing environment of health and medicine and how they affect policies for healing and prevention of illness and disease. Emphasis is given to the discourse of the body as a machine, its impact on health policies, and the effect of new technologies on relationships among health care providers, patients, and their families. Subjects include biotechnology, cloning, the Internet, digital medicine, and eugenics. 3 credits. (S,Y)

HPS-20500 Critical Health Issues SS LA 1b Examination of the health workforce, medical education, medical specialization, the rising cost of care, voluntary and governmental health insurance, health care delivery systems, and health care for the poor. 3 credits. (F-S,Y)

HPS-20600 Health Services Site Visits NLA Students tour at least five health service sites to see a variety of facilities. Meetings and discussions with administrators and clinicians are arranged. Some administrators present guest lectures in class. Coregistration in HPS-20500 is recommended. Prerequisites: GER0-10100. 1 credit. (IRR)

HPS-21000 Issues in Health Services Administration NLA Study of issues covered in HPS-20500 Critical Health Issues, but with direct application to the management and administration of health service facilities. Examination of how issues affect the day-to-day decisions of administrators in a variety of health care settings. Prerequisites: GER0-10100; HPS-20500. 3 credits. (IRR)

HPS-21500 Introduction to Health Policy and Policy Making SS LA Introduces the tools of policy analysis as a means of understanding the ways in which health care policy is shaped. A systematic and critical approach is employed to evaluate the design of health policy and how policies and programs create value in the public. Philosophical, political, and economic concepts central to health policy debates are applied. Students engage in decision analysis by defining a problem, devising solutions, clarifying stakes in available choices, and predicting the impact of those choices. Prerequisites: ECON-12200; HPS-11000, HPS-12000, HPS-13000, or HPS-14000. 3 credits. (F,Y)

HPS-22500 Health Communication SS LA Introduction to the study of health communication, including its origins, development, and status. Introduction to theories of health behavior and communication and to how they relate to one another in practice. Examination of communication between health professionals and clients and of the role media play in the health care industry and the delivery of health services. Cross-listed with SPCM-22500; credit may not be granted for both this course and SPCM-22500. Prerequisites: Sophomore standing or above. 3 credits. (F,Y)

HPS-25000 International Health Issues LA Study of public health and health care issues across national borders and how they affect the entire globe, including the future health of the planet. Public health and health care delivery in certain nations are also studied. Prerequisites: One social science course. 3 credits. (IRR)

HPS-28600 Pre-Internship Seminar NLA Prepares students for their first required administrative internship. The seminar consists of required readings, the creation of a professional résumé and cover letter, facilitated discussions on the expectations and practices of health care professionals, a brief paper, and a number of in-class exercises and discussions. Open only to majors in health services administration. Prerequisites: HPS-20500; GER0-10100. Pass/fail only. 0.5 credit. (F,Y)

HPS-30400 Economics of Health Care SS LA Peculiar economic characteristics of the health care industry. Supply of and demand for health care services; causal and remedial forces of institutionalized frameworks, market mechanisms, and governmental intrusions. Analysis of pricing in terms of the above forces and productivity. Ideal economic characteristics of medical insurance, as contrasted with several proposals for national health insurance. Production for national health insurance. Production function, cost-effectiveness, and benefit-cost analysis. Cross-listed with ECON-304; students cannot receive credit for both ECON-30400 and HPS-30400. Prerequisites: ECON-12100–ECON-12200; two courses in humanities, social sciences, or business. 3 credits. (S,Y)

HPS-30800 Program Evaluation NLA An application of evaluative techniques of economics to a variety of health care programs and policies — past, present, and proposed. Identification of the effects of the programs and their objectives lead to cost-benefit and cost-effectiveness analyses, accompanied by an assessment of alternative programs and policies. The institutional (legal, political, and social) constraints imposed on health care planners and administrators are considered in the context of economic criteria. Prerequisites: ECON-12200; HPS-36700; permission of instructor. 3 credits. (IRR)

HPS-31500 Health Research and Analysis SS LA Theoretical and philosophical bases for conducting research in health. Identifies and utilizes research methods in social and behavioral sciences, including quantitative, qualitative, and epidemiological methodologies. The objective is to assist students in the development of active skills, which include identifying key research issues in health, working through their analysis, and understanding the intellectual, practical, ethical, and political implications of different methods of research in health. Prerequisites: MATH-15300 or MATH-24300; HPS-21500. 3 credits. (F-S,Y)

HPS-32100 Financial Aspects of Health Care Management NLA Application of current finance theory, along with the tools used in day-to-day practice by health care managers. Topics include the unique aspects of health care financial management; the basic principles of financial planning, budgeting, and control in health care organizations; capital budgeting; the risk-return trade-off; and the cost of capital and capital structure decisions in health care. Emphasis is on developing skills to compare and contrast various types of organizations and to choose the appropriate financial control system that best reflects the mission of the organization by using techniques of flexible budget variance analysis, cost prediction simulation, and discount rates for capital expenditure analysis. Students develop a systematic approach to financial analysis and emerge with skills to apply techniques for planning, forecasting, and managing, and learn to evaluate and recommend improvements in a health care organization's financial performance. Prerequisites: MATH-10700, MATH-10800, or MATH-11100; MATH-14400 or MATH-24400; ACCT-22600. 3 credits. (F,Y)
HPS-32600  Health Planning and Administration  
Integrates general management principles with strategic planning in health care organizations. Data systems, forecasting, and problem identification and analysis are explored, along with the stages of strategic planning. Emphasis is placed on identifying strategic issues in complex environments and formulating realistic responses. Students prepare actual applications for new programs to regulatory agencies. Prerequisites: HPS-20500; MGMT-22000. 3 credits. (S,Y)

HPS-33510  Legal and Ethical Issues in Health Policy  
An examination of legal and ethical issues related to health care. Topics include the equitable distribution of scarce resources, the relationship between individual consumers and powerful (frequently for-profit) third party payers, and the government's role at all levels in regulating health care and protecting the public from potentially fraudulent or abusive providers. Prerequisites: PHIL-21200 or PHIL-23900; HPS-20500. 3 credits. (S,Y)

HPS-34000  Managed Health Care  
An examination of fundamental managed care principles. Topics include history; relationships among providers, payers, and subscribers; policy issues and practical concerns driving the rapid changes in the health care environment; delivery models and products; reimbursement and risk sharing; and Medicaid- and Medicare-managed care. Prerequisites: HPS-20500. 3 credits. (IRR)

HPS-35000  Communication in Health Service Organizations  
Study and practice of communication in health service contexts, including oral presentations in health planning, administration, management, policy, and education; health management decision making; and management, health professional, and patient/client relations. Examination of health management's communication with media, communities, government, and other health care organizations. Prerequisites: HPS-20500 or three courses in the social sciences, humanities, or health sciences; junior standing. 3 credits. (IRR)

HPS-36000  Front-Page Public Health: Policy and Epidemiology  
History and theories of the public health perspective. Detailed analysis of major contemporary public health issues in the context of political, economic, and social factors. Theories and uses of epidemiology as a descriptive, analytical, and political tool of public health. Community, regional, national, and/or international public health policies are studied. Attention is paid to current public health issues in the news. Prerequisites: Two courses in the social sciences; one course in mathematics in math placement group 1, 2, or 3. 3 credits. (F,E)

HPS-38700–HPS-48700 Internship  
Work experience under a qualified preceptor, with periodic written progress reports, a written major report on the job, and conferences with faculty. The first professional internship, which takes place between the sophomore and junior year, is a general internship for all students. The second internship, between the junior and senior year, is more specifically related to the student's particular career interest within the health care field. Summer-term tuition is charged for each summer's internship. Prerequisites: ECON-12200; HPS-20500; ACCT-22500; ACCT-22600. Pass/fail only. 4 credits each summer. (Sum,Y)

HPS-38800  Post-Internship Seminar  
Through assigned readings and reports, students do an in-depth evaluation of their first internship and of their own skills and weaknesses. Class discussions of internship projects, experiences, and what to look for in a second internship help students set goals for their second internship experience. Prerequisites: HPS-38700. Pass/fail only. 0.5 credit. (F,Y)

HPS-39000  Health Policy Internship  
Work experience under a qualified health policy specialist. Students test their own abilities and ideas, conduct health policy analyses in public settings, and learn what professional skills or abilities are required for further study. The focus of the internship is health policy: policy making and analyzing, applying policy principles and theories, evaluating policy, reviewing legal and ethical aspects, preparing for changes, activism, and what to expect in the field. It is full-time for a minimum of eight weeks, ordinarily in the summer after the junior year. May be repeated once for credit. Prerequisites: HPS-20500; HPS-31500. Pass/fail only. 4 credits. (Sum,Y)

HPS-39600  Fieldwork in Health Services Administration  
Field experience working in health administration settings. Under the supervision of a professional administrator in a health organization in the Ithaca area, students engage in work activities in the management of the agency. An integrated series of seminars provides the context from which to better understand health administration in practice, as well as the local, state, and federal regulations under which agencies operate. Prerequisites: HPS-20500. 3 credits. (F,S,Sum,Y)

HPS-39900–HPS-39999 Selected Topics in Health Policy  
Detailed study of contemporary health policy issues. Topics change to reflect trends in health policy and the interests and needs of students and faculty. Topics such as international health policy, women's health policy, and children's health policy are explored. Exploration of new areas of study or a substantial extension of topics as developed in the health policy curriculum. May be repeated for a total of up to 6 credits. Prerequisites: As appropriate to topics. 1–3 credits. (IRR)

HPS-41500  Health Policy Seminar  
In-depth examination of one specific health policy issue at the global, national, or local level. Analysis uses an interdisciplinary approach borrowing from social and natural sciences and cultural and ethnic studies. Students select their own health policy issue for detailed analysis and presentation to the class in a seminar format. The issues analyzed may change each semester. Prerequisites: HPS-31500. 3 credits. (F,Y)

HPS-41600  Applied Health Care Management  
Places students in the positions of consultants to health care organizations. The focus is on the need to integrate a wide range of professional skills with on-the-job work experiences. Examples of consulting projects include marketing/planning, needs assessments, and program evaluations. Course emphasis is experiential rather than didactic. Prerequisites: HPS-20500; HPS-20600; HPS-21000; HPS-30400; HPS-36700. 3 credits. (IRR)

HPS-43500  Health Care Law  
Introduction to legal principles and issues for medical care workers in health care organizations and alternate delivery systems. Liability of health care organizations and staff for injuries to patients; possible alternatives to the malpractice suit in compensating harmed patients; informed consent to medical and surgical procedures; privileges for physicians in public and private hospitals; liability for emergency-room care; medical records and unauthorized disclosure of information; confidential communication. Prerequisites: HPS-20500; BUSI-20000. 3 credits. (IRR)

HPS-49500–HPS-49599 Special Topics in Health Administration  
Detailed study of contemporary health administration issues. Topics change to reflect current and future trends in health administration and the interests and needs of students and faculty. May be repeated for a total of up to 6 credits. Prerequisites: HPS-38700; permission of the instructor. 1–3 credits. (IRR)

HPS-49900–HPS-49999 Independent Study  
Individual research and writing on a particular area of health services administration to be supervised by a faculty member in the department. Prerequisites: Permission of supervising faculty member, student's adviser, department chair, and dean. 1–4 credits. (F,S,Y)

**PHYSICAL ACTIVITY, LEISURE, AND SAFETY**

**Program Coordinator, TBA**

The physical activity, leisure, and safety (PALS) program provides diverse, skill-oriented physical activities as part of a general education program promoting the physiological development of students, improving their motor fitness and skills, and enabling them to maintain a suitable recreation program of their choice during and after college. A maximum of 6 credits in PALS courses, taken as open (free) electives, may be counted toward graduation. Each school or department determines the number that may be counted toward graduation. PALS courses are offered on a pass/fail basis only.

**Activity Course Registration Information**

Students must register online for activity courses. In order to do so, students must select the appropriate block: Block 1 (first 7 weeks of the semester) or Block 2 (last 7 weeks of the semester). There is the risk of being automatically dropped from the course if you do not attend the first class meeting. The only exception to this rule will be with prior notice of the absence. A student who is dropped for non-attendance may apply to be added at the next class meeting. (Note: The instructor is not obligated to drop a student; students who decide not to take the course must follow the regular drop procedures.)

All persons who participate in activity courses must have a health clearance on file in the College health center and must sign a “Responsibility of Student in Activity Courses” form at the first class meeting.
Students must register online for intercollegiate athletic course credit. Students who do not make the team or who discontinue participation for any reason must drop or withdraw from the course online. Intercollegiate athletic courses are offered on a pass/fail basis only. Credit is granted either in the fall or the spring for any given sport. No late requests for credit will be honored. In the off-season, students may reserve practice time in their schedule from 4:00 to 6:30 p.m. by using course number PALS-00100-01. For credit (0.5 per session), students must use the course number indicated below for the appropriate semester.

### Men's intercollegiate sports

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Sport</th>
<th>Credit</th>
</tr>
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<tbody>
<tr>
<td>Fall</td>
<td>PALS-00081</td>
<td>Football</td>
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</tr>
<tr>
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<td>PALS-00082</td>
<td>Soccer</td>
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<tr>
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<td>PALS-00084</td>
<td>Cross-Country</td>
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</tr>
<tr>
<td>Spring</td>
<td>PALS-00091</td>
<td>Baseball</td>
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<td>Crew</td>
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<tr>
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<td>PALS-00094</td>
<td>Lacrosse</td>
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<tr>
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<td>Track and Field</td>
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<tr>
<td></td>
<td>PALS-00097</td>
<td>Wrestling</td>
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<td>PALS-00098</td>
<td>Basketball</td>
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</tr>
<tr>
<td></td>
<td>PALS-00099</td>
<td>Swimming</td>
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### Women's intercollegiate sports

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<td>PALS-00078</td>
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<td>PALS-00079</td>
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<td>Cross-Country</td>
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<td>PALS-00074</td>
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<tr>
<td></td>
<td>PALS-00092</td>
<td>Crew</td>
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</tr>
</tbody>
</table>

### AQUATICS COURSES

Swimming is a skill basic to participation in many recreational activities. It is a lifetime leisure activity that can be either mild or strenuous, meeting various personal needs.

**PALS-00200 Basic Swimming**

For the person who cannot swim or who can swim but wants to improve his or her strokes. Covered are the front and back crawl, elementary backstroke, breaststroke, butterfly, and sidestroke. Elementary forms of rescue are also taught. Pass/fail only. 0.5 credit. (F-S,Y)

**PALS-00400 Scuba Diving**

Covers the use of fins, mask, and snorkel. Donning and ditching of the skin-diving equipment is required before going on to scuba. In scuba, rigging of the tank, taking pressure readings, buddy breathing, entries off the deck, and ditching and donning of scuba equipment are all covered, as well as the physiology of diving and the physics of scuba. On the last day of diving, an obstacle course involving all learned skills must be negotiated. Prerequisites: Ability to (1) swim underwater 60 feet, (2) hold breath on bottom for 30 seconds, (3) surface-dive to bottom and recover a 10-pound block, (4) tread water for 30 seconds, (5) swim 10 laps (250 yards) nonstop, (6) support a victim for 5 minutes, and (7) stay afloat for 10 minutes. Pass/fail only. 0.5 credit. (IRR)

**PALS-00500 Introductory Scuba Diving and Certified Scuba**

Preparation for the safe and enjoyable recreation of underwater diving. Scuba equipment is furnished. The National Aquatic School program designed for colleges is used. Successful completion of classroom, pool, and open-water sessions results in lifetime international certification. Special conditions: An extra fee is charged for this course. Students are required to complete a medical form at the first class meeting. Prerequisites: Basic swimming proficiency; signed parental or guardian's release and indemnity agreement for students under 18 years of age. Pass/fail only. 1 credit. (F-S,Y)

**PALS-00600 Community Water Safety**

Participants become familiar with the potential hazards of water activities. They learn to prevent accidents and to respond effectively if an accident does occur. A swimming test is required. Pass/fail only. 0.5 credit. (IRR)

**PALS-00800 Lifeguarding**

The duties and responsibilities of a lifeguard and how to carry them out; lifeguarding techniques, such as how to tow or carry a victim to safety, manage a suspected spinal injury in the water, and use rescue equipment to help rescue a distressed or drowning victim. American Red Cross first aid and basic life support CPR are included. To enroll, a student must at the first meeting successfully complete a 500-yard swim, dive to 9 feet, swim underwater 15 yards, and tread water for one minute. Pass/fail only. 2 credits. (F-S,Y)

**PALS-00810 Lifeguarding Recertification**

A review and update of the knowledge and skills required for recertification in lifeguarding. Covers lifeguarding techniques such as how to use rescue equipment to treat a victim to safety and how to manage a suspected spinal injury in the water. Students demonstrate their ability to become recertified in the current American Red Cross lifeguarding program. Maybe repeated once for credit. Prerequisites: Current American Red Cross lifeguarding and CPR for the professional rescuer certificates. Pass/fail only. 0.5 credit. (S,Y)

**PALS-00900 Lifeguarding Instructor**

Provides the knowledge and skills necessary to become an American Red Cross instructor for community water safety, waterfront lifeguarding, head lifeguard and lifeguarding instructor aide, and lifeguard review courses. Prerequisites: Current American Red Cross certificate in lifeguarding and pretests based on the lifeguard training written test and lifeguarding skills test. Pass/fail only. 1 credit. (IRR)

**PALS-01000 Water Safety Instructor**

Trains instructor candidates to teach American Red Cross water safety courses. Topics include improving and developing skills and knowledge of swimming and water safety; applying information from the instructor candidate training course to the teaching of swimming; planning and organizing swimming courses; and ensuring students' health and safety. Prerequisites: Proficiency in basic water safety and swimming strokes; current American Red Cross certificate in emergency water safety or lifeguard training. Pass/fail only. 2 credits. (F-S,Y)

### INDIVIDUAL AND DUAL SPORTS

Skills that may be applied to a lifetime of sports participation. Activity can be vigorous and competitive or mild and recreational, depending on the sport.

**PALS-01500 Fencing**

Beginning skills, techniques, and knowledge of foil fencing. Basic etiquette and rules of Downing. Techniques and practice in officiating a bout. Tournament-style bouts during the latter part of the course. Equipment is supplied. Pass/fail only. 0.5 credit. (IRR)

**PALS-01700 Cross-Country Skiing**

Provides the knowledge and skills to cross-country ski over a variety of snow-covered terrain. Proper use of equipment, walking, step turns, diagonal stride as well as uphill and downhill techniques are covered on the hills and flats surrounding the campus. Other facets covered include winter safety and planning and preparing for a ski tour. Equipment is supplied. Pass/fail only. 0.5 credit. (S,Y)

**PALS-01900 Basic Alpine Skiing**

Basic downhill skiing techniques. Special conditions: A fee is charged for this course. Meets one night a week, 7:00-9:30 p.m., off campus. Transportation is provided. Pass/fail only. 0.5 credit. (S,Y)

**PALS-02000 Intermediate Alpine Skiing**

For the intermediate skier who wants to improve his/her skill level. Special conditions: A fee is charged for this course. Meets one night a week, 4:15-10:30 p.m., off campus. Transportation is provided. Prerequisites: PALS-01900 or equivalent. Pass/fail only. 0.5 credit. (S,Y)

**PALS-02100 Advanced Alpine Skiing**

Offered for the advanced skier. Coaching sessions include skiing different snow conditions, skiing steep and mogul terrain, rhythm gates and racing turns for speed and control. Special conditions: A fee is charged for this course. Meets one night a week, 4:15-10:30 p.m., off campus. Transportation is provided. Prerequisites: PALS-02000 or equivalent. Pass/fail only. 0.5 credit. (S,Y)
TEAM SPORTS

Basic skills and the enjoyment of team play.

PALS-07600 Basketball I
Basic offensive and defensive philosophy and skills. Course content includes lead-up drills and games in all skills, team play, and some strategy. Designed for all levels of ability. Pass/fail only. 0.5 credit. (F-S,Y)

PALS-07700 Basketball II
An extension of Basketball I. Pass/fail only. 0.5 credit. (F-S,Y)

PALS-08000 Volleyball I
Introduces the skills and strategies involved in power volleyball. Class periods are spent perfecting such skills as the bump, set, serve, and block. Basic forms of offense and defense are introduced during game play. Pass/fail only. 0.5 credit. (F-S,Y)

PALS-08100 Volleyball II
An extension of Volleyball I. Pass/fail only. 0.5 credit. (F-S,Y)

GYMNASTICS

The performance of stunts on selected pieces of apparatus following progressive practice and instructional guidance. Improvement in physical development and coordination are primary goals.

PALS-05900 Gymnastics Activities I
Men practice tumbling, parallel bars, side horse, and vaulting; women practice tumbling, uneven bars, balance beam, and vaulting. Course objectives are to develop basic skills in the above areas, to combine two or more skills, and to promote good spotting techniques. Pass/fail only. 0.5 credit. (IRR)

PALS-06000 Gymnastics Activities II
While Gymnastics Activities I introduces students to various gymnastic events and their basic skills, Gymnastics Activities II is structured to individual specialization, so as to further develop skills and spotting techniques and to combine three or more skills. Pass/fail only. 0.5 credit. (IRR)

PALS-002200 Basic Snowboarding
Basic downhill snowboarding techniques. Special conditions: A fee is charged for this course. Meets one night a week, 4:15-10:30 p.m., off campus. Transportation is provided. Pass/fail only. 0.5 credit. (S,Y)

PALS-02500 Indoor Tennis
Fundamental tennis strokes and rules of the game; increase proficiency in playing tennis by indoor techniques. Indoor rackets and balls provided. Pass/fail only. 0.5 credit. (S,Y)

PALS-02600 Basic Tennis
Basic strokes, including ground strokes, slice serve, and block volley techniques, for use in singles and doubles play. Coverage of related rules and strategy necessary for game play, scoring, and etiquette. For students with no formal background in either the basic fundamentals or game strategy and no knowledge of scoring, rules, or etiquette. Tennis rackets and balls provided. Pass/fail only. 0.5 credit. (F-S,Y)

PALS-02700 Intermediate Tennis
Review of the ground strokes, slice serve, and block volley; lob and overhead are taught, stressing their use in both singles and doubles play. More game experience. Prerequisites: Ability to demonstrate ground strokes, slice serve, and block volley. Tennis rackets and balls provided. Pass/fail only. 0.5 credit. (F-S,Y)

PALS-02800 Advanced Tennis
Review of all basic strokes, with emphasis on executing them more efficiently. The flat serve and auxiliary strokes such as the half volley, chop, slice, drop volley, and lob volley are taught, stressing competitive play and strategy in both singles and doubles play. Prerequisites: Mastery of ground strokes, slice serve, block volley, lob, and overhead, performed in a game situation. Tennis rackets and balls provided. Pass/fail only. 0.5 credit. (F-S,Y)

PALS-03000 Field Archery I
Prepares students for bow hunting, including orientation to New York State hunting laws, game conservation, and bow hunting techniques, as well as the development of the bare-bow technique of shooting with a heavier-weight bow than is used in target archery. When proficiency at the target-but has been demonstrated, shooting at simulated wild-game targets takes place on a natural wooded trail. Equipment is supplied. Pass/fail only. 0.5 credit. (IRR)

PALS-03100 Field Archery II
An extension of Field Archery I. Pass/fail only. 0.5 credit. (IRR)

PALS-03300 Golf I
Develops an understanding and appreciation of the game through learning basic skills such as stance, grip, and swing. If time permits and student ability warrants, a visit to a local golf course will be made. This is a beginner’s course. Equipment is supplied. Pass/fail only. 0.5 credit. (F-S,Y)

PALS-03400 Golf II
An extension of Golf I. Pass/fail only. 0.5 credit. (F-S,Y)

PALS-03600 Badminton I
Fundamental skills of badminton necessary to play both singles and doubles; rules and customs involved in badminton. Content includes offensive and defensive skills, singles and doubles strategy and play, rules, and etiquette. Evaluation involves a skills test and a written exam. Pass/fail only. 0.5 credit. (F-S,Y)

PALS-03700 Badminton II
An extension of Badminton I. Pass/fail only. 0.5 credit. (F-S,Y)

PALS-03800 Badminton III
Clears, drop shots, smashes, net shots, serving, and strategy, with special emphasis on doubles play. Prerequisites: PALS-03600, PALS-03700, or permission of instructor. Pass/fail only. 0.5 credit. (IRR)

PALS-04000 Run, Walk, and Jog I
Provides students of all ability levels with an opportunity to understand and benefit from a lifetime activity. Techniques covered are warm-ups and flexibility, aerobics, running guidelines, and jogging safety. Training methods, various types of terrain, and special running events are covered. The course concludes with a fitness evaluation. Pass/fail only. 0.5 credit. (F-S,Y)

PALS-04100 Run, Walk, and Jog II
An extension of Run, Walk, and Jog I. The exercise program becomes more individualized. Pass/fail only. 0.5 credit. (F-S,Y)

PALS-04400 Paddleball I
This is a challenging sport and an opportunity for a vigorous workout. The course is suited for the beginner as well as the more experienced player. Basic skills and game strategy are covered, but most of the class time is devoted to playing informal games. Pass/fail only. 0.5 credit. (F-S,Y)

PALS-04500 Paddleball II
An extension of Paddleball I. Pass/fail only. 0.5 credit. (F-S,Y)

PALS-05000 Basic Windsurfing
Basic boardsailing technique. The class hours are flexible after the first three sessions. Special conditions: A fee is charged for this course. Meets off campus. Transportation is provided. A swimming test is required. Pass/fail only. 0.5 credit. (IRR)

PALS-05100 Intermediate Windsurfing
Intended for students who have mastered the basic boardsailing techniques. The class hours are flexible after the first three sessions. Special conditions: A fee is charged for this course. Meets off campus. Transportation is provided. Prerequisites: PALS-05000. Pass/fail only. 0.5 credit. (IRR)

PALS-05300 Sailing — Small Boat
For the student with little knowledge of sailing. Instruction is on sailboats with two sails. A swimming test is required. Special conditions: A fee is charged for this course. Meets off campus. Transportation is provided. Pass/fail only. 0.5 credit. (IRR)

PALS-05500 Sailing — Catamaran
For students who want to learn to sail a catamaran. A swimming test is required. Special conditions: A fee is charged for this course. Meets off campus. Transportation is provided. Pass/fail only. 0.5 credit. (IRR)

PALS-05700 Boating Skills and Safety
Introduces students to basic boating skills and techniques. Basic piloting, navigation rules, legal requirements, and dealing with emergencies are discussed. Pass/fail only. 1 credit. (IRR)

PALS-04400 Paddleball I
PALS-04500 Paddleball II
PALS-05000 Basic Windsurfing
PALS-05100 Intermediate Windsurfing
PALS-05300 Sailing — Small Boat
PALS-05500 Sailing — Catamaran
PALS-05700 Boating Skills and Safety

PALS-00600 Gymnastics Activities II
While Gymnastics Activities I introduces students to various gymnastic events and their basic skills, Gymnastics Activities II is structured to individual specialization, so as to further develop skills and spotting techniques and to combine three or more skills. Pass/fail only. 0.5 credit. (IRR)
PHYSICAL FITNESS ACTIVITIES

Fundamentals of physical fitness and body development based on sound progression, evaluated in accordance with the needs and desires of each participant.

PALS-09000 Personal Defense NLA
Develops, through the learning of basic skills, an appreciation of the art of defending oneself or one’s loved ones and property. Students learn strategy and knowledge of vulnerable areas, legal implications, and the need for physical exercise and safety precautions. Primarily for students who want to learn basic self-defense techniques. Pass/fail only. 0.5 credit. (F-S,Y)

PALS-09300 Personal Fitness I NLA
Provides the skills and activities needed to achieve a high degree of physical fitness. Exercises designed to improve cardiovascular endurance, muscle tone, flexibility, and personal appearance are emphasized. This course develops an appreciation for keeping in good physical condition. Pass/fail only. 0.5 credit. (F-S,Y)

PALS-09400 Personal Fitness II NLA
An extension of Personal Fitness I. Pass/fail only. 0.5 credit. (F-S,Y)

PALS-09500 Personal Fitness III NLA
Students set their own goals by incorporating more individualized instruction in their daily programs, including jogging, weight training, flexibility exercises, and circuit training. Pass/fail only. 0.5 credit. (IRR)

PALS-09800 Basic Jujitsu NLA
A basic course in Dan Zan Ryu Jujitsu. Involves the study of the history, philosophy, and skills of jujitsu. The techniques are a mixture of many of the martial arts and can be used for self-defense. An additional fee for a uniform may be required. Pass/fail only. 1 credit. (F-S,Y)

DANCE

Emphasis is placed on the individual’s awareness of dance as communication and dance as a lifetime leisure activity structured to satisfy the interests and desires of individuals of all ages.

PALS-10000 Dance Exercise I NLA
Allows the beginner to experience the benefits and pleasures derived from dance. Exercises from various dance forms allow the student to increase strength, flexibility, and endurance; to increase range of movement; to improve posture and body image; and to shape, tone, and condition the body while simultaneously developing coordination and grace of movement. In addition, the student develops awareness of the body and its energy so that efficient use of the body becomes part of everyday life. Pass/fail only. 0.5 credit. (IRR)

PALS-10100 Dance Exercise II NLA
A continuation of Dance Exercise I. Pass/fail only. 0.5 credit. (IRR)

PALS-10200 Dance Exercise III NLA
For those students who are able to perform at a fast pace and a more advanced level. Prerequisites: PALS-10000; PALS-10100. Pass/fail only. 0.5 credit. (IRR)

PALS-10300 Dance Exercise IV NLA
Provides students at a high level of fitness the opportunity to work out at an advanced level. Prerequisites: PALS-10200. Pass/fail only. 0.5 credit. (IRR)

PALS-10400 Dance Exercise with Weights NLA
For the student who desires a more difficult workout through the use of wrist weights and ankle weights. Emphasis is placed on strengthening the upper body and on toning hips and legs as students learn about cardiovascular endurance, strength, and flexibility. Pass/fail only. 0.5 credit. (IRR)

PALS-10800 Jazz Dance I NLA
The objectives are to help the student move freely and naturally in order to experience the quality of jazz dance, experience the variety of styles and rhythms in jazz music and jazz dance, and become familiar with terminology used in jazz dance. The student should experience his or her own natural rhythms and energy levels, experience the mind/body relationship, increase in strength, flexibility, and endurance, and improve positive body image. This course is designed to develop the kinesthetic sense and memory, to develop basic motor skills and rhythmic acuity, and to help the student understand the possibilities and limitations of the body and experience his or her own range of movement. Pass/fail only. 0.5 credit. (IRR)

PALS-10900 Jazz Dance II NLA
A continuation of Jazz Dance I, or for those students whose background enables them to perform at an intermediate level. Pass/fail only. 0.5 credit. (IRR)

PALS-11000 Jazz Dance III NLA
A continuation of Jazz Dance II, or for students whose background enables them to perform at a fast intermediate level. Pass/fail only. 0.5 credit. (IRR)

PALS-11100 Jazz Dance IV NLA
Offered for the student who can perform at an advanced level with the opportunity to improve and perfect skill and technique in this dance form. Prerequisites: PALS-11000. Pass/fail only. 0.5 credit. (IRR)

PALS-11300 Tap Dance I NLA
This course is designed to (1) allow the student to experience the form of tap dance, (2) promote exercise and an enjoyable experience through tap dance, as well as skill and confidence at the beginning level, (3) develop the rhythmic acuity that is necessary to this form, (4) equip the student with the terminology used in tap dance, and (5) introduce students to the history of tap dance, its development as an art form, and its contribution to American musical theater. Pass/fail only. 0.5 credit. (IRR)

PALS-11400 Tap Dance II NLA
A continuation of Tap Dance I, or for those students whose background enables them to perform at an intermediate level. Pass/fail only. 0.5 credit. (IRR)

PALS-11500 Tap Dance III NLA
A continuation of Tap Dance II, or for those students whose background enables them to perform at a fast intermediate level. Pass/fail only. 0.5 credit. (IRR)

PALS-12100 Aerobic Funk Dance I NLA
Students learn the latest street dances and get a cardiovascular workout. This fast-paced, high-intensity class is made up of low-impact movement and funky choreography from warm-up to cool-down. Not recommended for beginners. Some aerobic or dance experience is necessary. Pass/fail only. 0.5 credit. (IRR)

PALS-12200 Aerobic Funk Dance II NLA
A continuation of Aerobic Funk Dance I, or for those students whose background enables them to perform at a more advanced level. Prerequisites: PALS-12100. Pass/fail only. 0.5 credit. (IRR)

PALS-19900–PALS-19999 Selected Topics in PALS NLA
Topics of current interest to faculty and students. Experimental courses are offered under this course number and title. This course may be repeated for credit for different selected topics. Prerequisites: As appropriate to topics. Pass/fail only. 0.5–1 credit. (IRR)

The PALS program also sponsors intercollegiate athletic courses. Credit may be awarded for a full season of participation, including preseason conditioning, skill and strategy sessions, and competitive opportunities. Medical clearance by the College's health center is required prior to participation in any intercollegiate sport.

HEALTH SCIENCES AND HUMAN PERFORMANCE — INTERDISCIPLINARY

Patricia E. Green, Associate Dean and Coordinator

The School of Health Sciences and Human Performance is committed to the promotion of interdisciplinary course offerings that teach students the importance of collaboration among professionals in related fields. The health care environment is increasingly characterized by multidisciplinary teams employing a case management approach in the area of disease prevention, as well as in areas of diagnosis and treatment. A number of courses are cross-listed between departments, such as Seminar: Health Care Teams, which is listed as SLPA-46000 in the Department of Speech-Language Pathology and Audiology and TRLS-46000 in the Department of Therapeutic Recreation and Leisure Services. HINT-10000 Health Sciences: Foundations and Careers is a first-year seminar designed to introduce students to fields in all departments of the School of Health Sciences and Human Performance.
HINT-10000  Health Sciences: Foundations and Careers  NLA  An overview of the foundation of health sciences and career opportunities in the various fields. The class format includes small-group discussion as well as guest lectures by health science educators. Selected issues related to the professions are also examined. 2 credits. (FY)

HINT-31200  Health Care and Culture  LA 1g  An investigation of sociocultural context in the delivery and receipt of health care and rehabilitation services. Students examine through readings, discussion, and interviews with people in the community the role of ethnicity, race, religion, and socioeconomic status in shaping the health-related beliefs and behaviors of individuals. Prerequisites: Junior standing. 2 credits. (SY)

HINT-31300  Health Care and Culture: An International Field Experience  NLA 1g  An investigation of sociocultural factors in the delivery of health care and rehabilitation services in an international context. Students examine, through experiential learning, discussion, and lectures, the role of ethnicity, race, religion, and socioeconomic status in shaping the health-related beliefs and behaviors of individuals in a selected country. Prerequisites: HINT-31200 or permission of the instructor. 1 credit. (SY)

OCCUPATIONAL THERAPY

Diane Long, Associate Professor and Interim Chair  

The curriculum in occupational therapy is designed to provide a strong foundation in the liberal arts, sciences, and humanities; to offer a comprehensive and rigorous professional education; and to develop attitudes and skills for lifelong learning and leadership. Academic instruction is complemented with clinical fieldwork experiences including 32 weeks of full-time clinical affiliations. Students are provided with a strong general education and the opportunity to explore special interests in academic, clinical, and research arenas.

The occupational therapy program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA, 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220, Telephone 301-652-AOTA, www.aota.org). Program graduates are eligible to sit for the national certification examination for the occupational therapist, administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be an occupational therapist, registered (OTR). In New York and most other states, a professional license is also required for practice. The NBCOT examination serves as the licensing exam in most states. Students are, however, required to apply separately for licensure and certification upon graduation. The program is five years in length and leads to a master of science degree in occupational therapy. Students in this program receive a bachelor of science degree in occupational science at the completion of four years of study. They are not eligible for licensure or certification, however, until they complete the fifth year. The master's degree program is further described in the Ithaca College graduate catalog.

The 10-week summer program following the junior year is conducted at the University of Rochester Medical Center in Rochester, New York. The fifth year of study consists of two academic semesters and two summers, including three full-time clinical fieldwork experiences completed at sites throughout the country. Travel and housing arrangements for fieldwork and the fifth year are the responsibility of the student. Students enter this program as freshmen, but transfer students may be accepted as described on p. 53.

Special Academic Status Policy for Occupational Science and Occupational Therapy Majors  

Students in occupational science and occupational therapy must obtain a grade of at least C- in all professional courses, including major courses and required courses outside the major.

Successful completion of all pre-professional coursework and a cumulative GPA of 2.70 for the first two years is required for continuation in the occupational therapy program. Progression through the remainder of the undergraduate program depends upon maintenance of a 2.70 cumulative GPA and successful completion (C- or better) of all courses in each sequential semester. A student who fails to complete a required course with a grade of C- or better must repeat the course. Refer to p. 296 for the College policy on repeating a course. Since professional courses are offered once per year and are specifically sequenced, course failure may result in the delay of fieldwork and graduation.

For automatic progression into the master of science program in occupational therapy (graduate program), students must have completed the B.S. program in occupational science with a cumulative GPA of 3.00 or better. Students with a GPA below 3.00 but equal to or more than 2.70 will be required to pass a departmental graduate admission examination for advancement to the graduate program. Students must complete all requirements for the B.S. in occupational science and be authorized by the faculty before taking clinical fieldwork courses scheduled to start at the beginning of the graduate program. Students must earn satisfactory ratings in all courses and fieldwork before the M.S. degree will be awarded and the student can be eligible for certification and licensure. All level II (graduate) fieldwork must be completed within 24 months of completion of the didactic portion of the program.

Academic warning, suspension, and dismissal  

A student who fails to meet any of the minimum requirements stated above may be placed on academic warning, suspended, or dismissed from the program. See the College policies on academic warning, suspension, and dismissals, p. 297. Students who have been placed on academic warning or suspension will be expected to meet departmental standards for all subsequent semesters.

A student who is subject to dismissal from the program may, under extenuating circumstances, be granted a suspension from the program. If a student demonstrates an academic deficiency that is more severe than would merit a warning, that student may be suspended from the program. For readmission to the program, the student may have to fulfill certain conditions, such as remedial coursework or clinical assignments prescribed by the faculty at the time of suspension. For students in the final year, readmission may be contingent on the availability of space in succeeding classes.

Students whose academic performance indicates little likelihood of their attaining minimum program or professional standards will be subject to dismissal from the program in the following cases:

1. A freshman or sophomore on warning for the previous semester, or a junior, senior, or graduate student who has been on warning for any semester, who earns less than a C- in any major or required course or fails to remove an incomplete grade in the specified period of time;
2. A student who earns less than a C- in two or more courses in the same block or semester;
3. A freshman or sophomore on departmental warning who fails to complete at least 12 credits in a semester with a C- or better, or a junior or senior who fails to complete the minimum number of hours to progress to the next semester;
4. An occupational science major who has less than a 2.70 cumulative GPA at the completion of the spring semester of the sophomore year or any subsequent semester;
5. An occupational therapy (graduate) student who earns more than 6 credits of C (C+, C-, C-) or more than 3 credits of F;
6. A student who fails two or more clinical fieldwork experiences or practicums;
7. An occupational therapy (graduate) student who fails to complete level II fieldwork/internship (OTMS-60000, OTMS-69000, and OTMS-69500 or OTMS-69600) within 24 months of completing all didactic coursework; or
8. A student who significantly violates the professional code of ethics published in the Occupational Therapy Department Student Manual.

In an exceptional case, a student who has been dismissed may be readmitted to the program upon satisfaction of conditions determined by the department faculty. Dismissal from the occupational therapy program does not always mean dismissal from Ithaca College. In some cases, students may be eligible to pursue other Ithaca College majors. Specifics with regard to these policies and the appeals procedures are available in the department office and in the Occupational Therapy Department Student Manual.

Housing and Travel for Clinical Fieldwork  

Clinical fieldwork is an essential part of professional training. Students are assigned to fieldwork sites locally, near their homes, and at locations around the United States. Students can expect that at least some of their placements will be at a distance from home. Students are responsible for making their own housing and travel arrangements during clinical fieldwork experiences. Assistance in securing housing information for affiliations is available from the department office. For more information on student expenses for the final year, see p. 273 of this catalog.
B.S. in Occupational Science

Note: This degree does not provide eligibility for certification or licensure in occupational therapy. It is awarded after four years of study in the five-year B.S./M.S. program in occupational science/occupational therapy.

Requirements for the Major in Occupational Science — B.S.

Major department requirements

OTBS-10500 Occupations and You 3
OTBS-20100 Human Development I 3
OTBS-20200 Human Development II 3
OTBS-20500 Introduction to Occupational Science 3
OTBS-30500 Applied Occupations I 3
OTBS-31000 Kinesiology 4
OTBS-31500 Applied Occupations II 2
OTBS-32000 Clinical Psychiatry in Occupational Therapy 3
OTBS-33000 Individual and Group Work in Health Sciences 4
OTBS-41000 Neuroscience 3
OTBS-42500 Clinical Management in Occupational Therapy 3
OTBS-42600 Professional Practice in Community Occupational Therapy 3
OTBS-43000 Applied Intervention in Occupational Therapy 3
OTBS-44000 Adult Evaluation Processes in Occupational Therapy 4
OTBS-44500 Pediatric Evaluation Processes in Occupational Therapy 4
OTBS-45000 Adult Intervention Processes in Occupational Therapy 3
OTBS-45500 Pediatric Intervention Processes in Occupational Therapy 3
OTBS-46000 Research Methods in Occupational Therapy 3
OTBS-46500 Research Seminar 1
OTBS-47100 Adult Clinical Conditions in Occupational Therapy 3
OTBS-47500 Pediatric Clinical Conditions in Occupational Therapy 2

Total, required within department 63

Required courses outside the department

BIOL-11900 Fundamentals of Biology I 4
BIOL-12000 Fundamentals of Biology II 4
BIOL-20600 Primary Human Anatomy 3
CHEM-10100 Chemistry and Your Body 3
COMP-11000 Computers and Information Technologies 3
PHIL-23000 Bioethics or
PHIL-10100 Introduction to Philosophy or
PHIL-21200 Introduction to Ethics 3
PSYC-10300 General Psychology 3
PSYC-32100 Abnormal Psychology 3
SOCI-xxxx Sociology and/or
ANTH-xxxx Anthropology 6
WRTG-10400 Academic Writing I or
WRTG-11100 Academic Writing II 3
WRTG-xxxx Writing elective (above WRTG-11100) 3
HPS-20500 Critical Health Issues 3
PTBS-31000 Human Anatomy 6
PTBS-31300 Clinical Physiology 3
PTBS-39000 Research I: Introduction to Inquiry 3

Total, required outside department 53

Electives outside of major department

Mathematics placement in level II (see math placement exam, p. 153, for more information) 0-4

Electives outside of major department

Mathematics placement in level II (see math placement exam, p. 153, for more information) 0-4

HSHP/aging studies electives — A total of 3 credits selected from the following:

SLPA-10901 Sign Language I 3
SLPA-15000 Introduction to Communication Disorders 3
HPS-10000 Introduction to the Vocabulary of Medicine 1
HPS-10200 Medical Terminology 3
HPS-12900 Introduction to Global Studies 3
HPS-21000 Issues in Health Services Administration 3
HPS-25000 International Health Issues 3
PHED-10300 Physical Education, Exercise, and Sport: Foundations and Careers 2
PHED-15500 Motor Skill Development 3
PHED-20300 Adapted Physical Education and Sport 3
TRLS-10100 Leisure and Society 3

TRLS-10300 History and Philosophy of Leisure 3
TRLS-10400 New Games 1
TRLS-10500 Leadership 3
TRLS-12500 Understanding Disability: Characteristics, Causes, and Concerns 3
TRLS-21000 Recreational Dance 1
TRLS-21500 Youth at Risk 3
TRLS-23300 Introduction to Therapeutic Recreation 3
TRLS-23800 Leisure and Aging 3
TRLS-25100 Foundations of Outdoor Adventure Pursuits 3
TRLS-46000 Seminar: Health Care Teams 3
HLTH-10900 Healthy Choices 1
HLTH-11300 Personal Health 3
HLTH-12200 Emergency Health Care 3
HLTH-15200 Introduction to Health and Physical Education 3
HLTH-20200 Human Nutrition 3
HLTH-22500 Wellness: Multicultural Perspectives on Health and Healing 3
HLTH-22700 Stress: Its Nature and Management 3
HLTH-22800 Human Sexuality 3
HLTH-22900 Disease and Lifestyle 3
HLTH-24000 Health Promotion and the Older Adult 3
EXSS-16200 Introduction to Fitness and Exercise Science 2
EXSS-29600 Sport and Exercise Psychology 3
EXSS-32000 Neuromuscular Control 3
OTBS-21000 The Cancer Experience 3
HINT-31200 Health Care and Culture 2
HINT-31300 Health Care and Culture: An International Field Experience 1
SPMM-29500 Social Aspects of Sport 3
SPMM-29700 Sport: Philosophical Perspectives 3
SPMM-29800 Gender Issues in Sport 3
PTSB-20200 Rehabilitation for Older Adults 3
GERO-10100 Introduction to Gerontology 3
GERO-31900 Aging Policies and Programs 3

Total, B.S. in occupational science 129

Summary

Major department requirements 63
Required courses outside department 53
Math requirement 0-4
HSHP/aging studies elective 3
Free electives 6-10
Total, B.S. in occupational science 129

M.S. in Occupational Therapy

Melinda Cozzolino, Associate Professor and Graduate Chair

The five-year curriculum is designed to provide depth and breadth for students’ professional development, liberal arts education, and analytical skills. Full-time clinical fieldwork placements, a total of 32 weeks, are located throughout the country and take place in the summer preceding and the late spring and summer following the graduate year. Coursework at the graduate level is organized into five time blocks: two for academic coursework and three for clinical experience.

Graduation Requirements

To be considered for graduation with the master of science degree in occupational therapy, all students must complete the following:

• the B.S. degree program in occupational science from Ithaca College
• major department requirements (listed below)
• 6 credits of clinical electives (offered in the spring academic semester). Students must take 3 credits of OTMS-64xxx and 3 credits of OTMS-66xxx. Specific courses offered will be determined by student consensus.
• a research thesis (6 credits: OTMS-67200 and OTMS-67300, Thesis I and II) or a group research project (3 credits: OTMS-67100 and OTMS-67500, Advanced Program Practice). A thesis proposal approved by the faculty is required for students who enroll in the thesis option. Students who do not complete a thesis are required to pass a comprehensive examination developed by the faculty.
<table>
<thead>
<tr>
<th>Major department requirements</th>
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<tbody>
<tr>
<td>OTMS-62000 Advanced Theory and Practice 3</td>
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<tr>
<td>OTMS-65000 Applied Pediatric Neuroscience or</td>
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<tr>
<td>OTMS-65100 Applied Adult Neuroscience 3</td>
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<tr>
<td>OTMS-65500 Technological Interventions in Occupational Therapy 3</td>
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<tr>
<td>OTMS-66500 Gerontic Occupational Therapy 3</td>
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<tr>
<td>OTMS-xxxx Clinical Elective I 3</td>
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<tr>
<td>OTMS-xxxx Clinical Elective II 3</td>
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<tr>
<td>Total, major department requirements 18</td>
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**Clinical elective I courses**
Choose one of the following:

| OTMS-64100 Adaptation and Environmental Modification (3) |
| OTMS-64300 Cognitive Rehabilitation (3) |
| OTMS-64500 Vocational Readiness (3) |
| OTMS-64600 Play and Leisure (3) |

**Clinical elective II courses**
Choose one of the following:

| OTMS-68100 Advanced Concepts in Physical Disabilities (3) |
| OTMS-68200 Advanced Concepts in Psychosocial Occupational Therapy (3) |
| OTMS-68300 Advanced Concepts in Geriatric Rehabilitation (3) |
| OTMS-68400 School-Based Occupational Therapy (3) |
| OTMS-68500 Hand Therapy (3) |
| OTMS-68800 Occupational Therapy in Early Intervention (3) |

**Clinical fieldwork**

| OTMS-60000 Clinical Fieldwork II: Children and Adolescents 6 |
| OTMS-69500 Clinical Fieldwork II: Adult and Geriatric 6 |
| OTMS-49500 Clinical Fieldwork II: Elective Specialty or |
| OTMS-49600 Elective Internship (4) 4 |
| Total, clinical experience 16 |

**Research**

| OTMS-47200 Individual Research: Thesis I (3) and |
| OTMS-47300 Individual Research: Thesis II (3) or |
| OTMS-47500 Advanced Program Practice (3) and |
| OTMS-47100 Group Research (3) |
| Total, research 6 |
| Total, M.S. in occupational therapy 40 |

**OCCUPATIONAL THERAPY COURSES**

| OTBS-10500 Occupations and You LA 1 |
| OTBS-20100 Human Development I LA 1 |
| OTBS-20200 Human Development II LA 1 |
| OTBS-20500 Introduction to Occupational Science LA |
| OTBS-20600 The Culture of Disability LA SS 1h |
| OTBS-21000 The Cancer Experience LA |
| OTBS-30500 Applied Occupations I NLA |
| OTBS-31000 Kinesiology NS LA |
| OTBS-31500 Applied Occupations II NLA |
| OTBS-32000 Clinical Psychiatry in Occupational Therapy NLA |
| OTBS-33500 Individual and Group Work in Health Sciences LA |
| OTBS-39900–OTBS-39999 Selected Topics in Occupational Therapy LA/NLA |
| OTBS-41000 Neuroscience LA/NS |
| OTBS-42500 Clinical Management in Occupational Therapy NLA |

**Prerequisites**

OTBS-42600: Prerequisite: Sophomore standing or permission of instructor. 3 credits. (S,Y)

OTBS-21000: Introduction to the major types of cancer, basic medical terminology, impact of cancer on the individual, cultural differences in types of cancer, and external and internal influences on cancer, as well as treatment, adjustments, and coping strategies. Prerequisites: Sophomore standing, 3 credits. (S,Y)

OTBS-30500: OTBS-20500. 3 credits. (S,Y)

OTBS-31000: The application of gross anatomy to the study of human movement, with emphasis on understanding the interrelated kinetics of normal motions of the musculoskeletal system as they influence functional activities. Evaluation procedures such as manual muscle testing, joint range of motion measurement, and kinesiological analysis of functional activities are used in laboratory sessions. Prerequisites: PHYS-10100; PTBS-31000. 4 credits. (F,Y)

OTBS-31500: OTBS-20500. 3 credits. (S,Y)

OTBS-32000: Study of the basic concepts of identification, definition, and management of psychosocial problems. Major pathological syndromes and their etiologies are examined. Includes an introduction to pharmacology and medical terminology. Emphasis is placed on understanding not only the pathology and medical treatment, but also the effect of the condition on the individual's ability to perform functional activities. Additional emphasis will be placed on children, the elderly, and interdisciplinary teams. Prerequisites: PSYC-32100; OTBS-20200. 3 credits. (S,Y)

OTBS-33500: OTBS-20200. 3 credits. (S,Y)

OTBS-39900: Topics of current interest to faculty and students. Experimental courses are offered under this number and title. This course may be repeated for credit for different selected topics. Prerequisites: As appropriate to topics. 1–3 credits. (IRR)

OTBS-41000: Introduction to the science of the human nervous system. Provides a framework for understanding the nervous system and the area of applied neurosciences. Emphasis is placed on understanding not only the pathology and medical treatment, but also the effect of the condition on the individual's ability to perform functional activities. Additional emphasis will be placed on children, the elderly, and interdisciplinary teams. Prerequisites: PSYC-10300; 6 credits in sociology and/or anthropology. 3 credits. (F,Y)

OTBS-42500: OTBS-45000 or permission of instructor. Corequisites: OTBS-42600. 3 credits. (S,Y)
OTBS-42600 Professional Practice in Community Occupational Therapy
Focusses on practice in educator, consultant, and advocacy roles in emerging community-based settings. Emphasis is on emerging areas of OT practice as well as nontraditional alternatives. Examines transition to professional role in the community, including career development, professional responsibilities, current trends and issues, and clinical education. Prerequisites: OTBS-45000 or permission of instructor. Corequisites: OTBS-42500. 3 credits. (S,Y)

OTBS-43000 Applied Interventions in Occupational Therapy
Part of the occupations thread that follows OTBS-31500 Applied Occupations II. Emphasis is on selected occupational therapy intervention methods. The use of orthotics as a preparatory method in intervention, the evaluation and intervention of biomechanical components, and prosthetics as an occupation-based activity are explored. Adaptation of methods of instruction activities of daily living and design of equipment is also covered. Prerequisites: OTBS-31000; OTBS-31500. 3 credits. (F,Y)

OTBS-44000 Adult Evaluation Processes in Occupational Therapy
The occupational therapy process begins with evaluation, consisting of developing an occupational profile of the client and conducting an analysis of occupational performance. Practice models that are suitable for the adult client population will be addressed within the context of the evaluation process and formulating an intervention plan. This course is integrated with OTBS-45000 and OTBS-47100. Prerequisites: OTBS-31000; OTBS-33000; OTBS-41000. Corequisites: OTBS-45000. 4 credits. (F,Y)

OTBS-44500 Pediatric Evaluation Processes in Occupational Therapy
Presents various frames of reference and therapeutic approaches used in the evaluation and intervention process for children. Emphasis is given to theoretical constructs and therapeutic applications based on principles of human development. Pediatric theories and principles are related to practice in a variety of settings. Laboratory experiences emphasize the assessment of children and adolescents based on these principles. Prerequisites: OTBS-20100; OTBS-31500. Corequisites: OTBS-45000; OTBS-47500. 4 credits. (S,Y)

OTBS-45000 Adult Intervention Processes in Occupational Therapy
The intervention phase of the occupational therapy process not only involves implementing the intervention plan, but also reevaluation of the plan. This process is addressed within the context of practice models suitable for the adult client population. Includes a clinical fieldwork experience and a case/problem-based seminar. This course is integrated with OTBS-44000 and OTBS-47100. Prerequisites: OTBS-31000; OTBS-33000; OTBS-41000. Corequisites: OTBS-45000. 3 credits. (F,Y)

OTBS-45500 Pediatric Intervention Processes in Occupational Therapy
Concepts and theories in occupational therapy are applied in observing, evaluating, planning, and implementing services for children. Emphasis is placed on the development of skills based on sound theoretical concepts and on the process of clinical reasoning. Exposure to clients through clinical placement. Prerequisites: OTBS-31500. Corequisites: OTBS-44500; OTBS-47500. 3 credits. (S,Y)

OTBS-46000 Research Methods in Occupational Therapy
Review of the basic methods and designs used in occupational therapy research and inquiry. Includes the conceptual foundations, basic research methodology, and analysis and interpretation of data. Emphasizes critical evaluation of occupational therapy research literature based on both quantitative and qualitative methods in order to develop evidence-based practitioners. Provides the student with understanding of the individual thesis proposal and comprehensive literature reviews, as well as the components involved in writing the thesis. Prerequisites: PTBS-39000. 3 credits. (S,Y)

OTBS-46500 Occupational Therapy Research Seminar
A seminar/tutorial-based course that builds on previous classes in research statistics and design, and on clinical/professional courses in the senior year. This course is taken with a faculty member who is conducting research in an area of interest to the student. Construction of a research paper, including the development of a problem statement and research questions suitable for thesis research, and support of these elements with a background, definition, and rationale. Oral presentation of the proposal is required. Prerequisites: OTBS-46000; senior status. 1 credit. (S,Y)

OTBS-47100 Adult Clinical Conditions in Occupational Therapy
A study of selected systemic, medical-surgical, orthopedic, and neurological conditions. Basic concepts in the identification, definition, and medical management of these conditions affecting adults and older persons. Emphasis is placed on understanding not only the etiology, pathology, and medical treatment, but also the effect of the condition and its treatment on the person's ability to perform functional activities. Prerequisites: PTBS-31000; PTBS-31300; OTBS-41000. 3 credits. (F,Y)

OTBS-47500 Pediatric Clinical Conditions in Occupational Therapy
Exploration of the salient medical background of pediatric diseases and conditions. Principles of medical management of selected systemic diseases in children and young adults as a basis for intervention by an occupational therapist. Prerequisites: PTBS-31000; PTBS-31300; OTBS-41000. 2 credits. (S,Y)

OTBS-49990–OTBS-49999 Independent Study in Occupational Therapy
Individual research and writing in a particular area of occupational therapy, supervised by a faculty member in the department. An approved design statement is required before registration for this course. Prerequisites: Permission of supervising faculty member, student’s adviser, department chair, and dean. 1–3 credits. (F-S,Y)

OTMS-59800 Special Topics in Occupational Therapy
Formal instruction in topics of current interest to graduate students and faculty in occupational therapy. Experimental and topical courses will be offered under this number and title. Course may be repeated for credit for different selected topics. Prerequisites: Permission of instructor. 1–3 credits. (IRR)

OTMS-60000 Clinical Fieldwork II — Children and Adolescents
Three months of full-time, supervised clinical experience with the opportunity to treat pediatric patients/clients. Assignment in a training center program approved in accordance with the American Occupational Therapy Association’s standards. Pass/fail only. Required. 6 credits. (B01 or 04,Y)

OTMS-62000 Advanced Theory and Practice
Examination and critique of definitions, philosophy, generic base, and concepts in occupational therapy. Occupational therapy theory development, structure, and function are analyzed and critiqued as they relate to basic assumptions, frames of reference, and implications for practice and research. Focus is on research and theory development and the application of theory to occupational therapy practice. Required. 3 credits. (B03,Y)

OTMS-64100 Adaptation and Environmental Modification
Study of theories regarding human behavioral adaptation and development of skills to modify physical, emotional, social, and cultural environments. Promotion of appropriate behavioral adaptations that facilitate engagement with the tasks that comprise life roles. Examination of methods of environmental assessment and techniques for modification of physical spaces and equipment, temporal structures, and patterns of use. Elective 3 credits. (B03,IRR)

OTMS-64200 Advanced Concepts in Adapting Environments
Adaptation of physical, emotional, social, and cultural environments to promote patient/client success. Covers the external barriers that impede successful functioning. Environment adaptation includes time, space, and technical aspects that promote optimal functioning. Development of specialized equipment and methods of adapting equipment and physical space. Elective. 3 credits. (B03,IRR)

OTMS-64300 Cognitive Rehabilitation
Occupational therapy assessment and intervention for persons with cognitive dysfunction. Evaluation instruments are derived from various theoretical perspectives. The focus is on assessment and intervention with brain-injured adults, but other patient populations are also considered. Intervention strategies and critical analysis of research are emphasized. Elective. 3 credits. (B03,IRR)

OTMS-64500 Vocational Readiness
The role of occupational therapy in the vocational readiness process. Includes a review of vocational development and values, theoretical models, assessment, planning, treatment, and documentation. Vocational programming for children, adolescents, and adults with a variety of disabilities is discussed. Laboratory activities in vocational assessment and training are included. Students completing the course will be certified in the McCarron-Dial work evaluation system. Elective. 3 credits. (B03,IRR)

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OTMS-64600 Play and Leisure
Further exploration of the occupational concepts of play and leisure and their application to occupational therapy theory and practice. Developmental, theoretical, cultural, and philosophical aspects of play in normal individuals and in individuals with disabling conditions. Use of play/leisure in assessment, play as means, and play as end in occupational therapy practice. Seminar and discussions are supplemented with experiential learning and laboratories. 3 credits. (B03,IRR)

OTMS-65000 Applied Pediatric Neuroscience
Pediatric neuroscience and neuroscientific theories as they apply to pediatric practice. Theoretical and treatment models investigated include sensory integration (SI) theory, neurodevelopmental theory (NDT), and theories of motor control and motor learning for the treatment of children with a variety of developmental disorders. Clinical lab deals with treatment for children having cerebral palsy, learning disabilities, and related conditions. Elective alternative to OTMS-45100. 3 credits. (B02, Y)

OTMS-65100 Applied Adult Neuroscience
The use of neurologically based approaches to the treatment of adults with stroke, head trauma, and other neurological disorders. Includes review of neuroanatomy and physiology, and critique of neurologically based models, including contemporary task-oriented approach, NDT, Brunnstrom, and Rood techniques. Elective alternative to OTMS-65000 Applied Pediatric Neuroscience. 3 credits. (B02, Y)

OTMS-65500 Technological Interventions in Occupational Therapy
Examines the role of occupational therapists as part of an interdisciplinary team in the assessment, selection, application, and outcomes of assistive technology for individuals with disabilities. Considers the use of technology to allow greater accessibility and independence for people of all ages with physical, sensory, and cognitive disabilities in the performance of life skills, including self-care, education, recreation, vocation, mobility, and communication. Prerequisites: Graduate student status. 3 credits. (B02, Y)

OTMS-66500 Gerontic Occupational Therapy
Health care and community support of wellness, occupational performance, and quality of life as they relate to the needs of people over 65. Includes skills and knowledge required to work effectively in interdisciplinary teams, with clients and caregivers, as individuals and in groups. Disease and disability prevention, environmental adaptation to facilitate continuing engagement in occupations, factors contributing to successful aging, and legislative and reimbursement issues as they apply to service delivery with the elderly. Students participate in discussions, problem-solving seminars, interaction with well and frail elderly, and review of the current literature regarding effective practice with the elderly. Prerequisites: Graduate student status. 3 credits. (B02, Y)

OTMS-67100 Group Research
A research course for students who do not elect to conduct individual research for a thesis. It includes leading and criticism of research related to a faculty-designed research project, collecting and analyzing data, writing of results, and discussion of findings of the project. Elective alternate to OTMS-67200 Individual Thesis Research I. 3 credits. (B02, Y)

OTMS-67200 Individual Thesis Research I
Preparation of a thesis proposal and the first three chapters (introduction, literature review, and methodology) of an independent, scholarly research paper under the supervision of a member of the graduate faculty in occupational therapy. Data collection will be initiated. The graduate committee must approve the proposal. Elective. 3 credits. (B02, Y)

OTMS-67300 Individual Thesis Research II
Completion of independent research, including collecting data and analyzing results. Preparation of a scholarly research paper under the supervision of a member of the graduate faculty in occupational therapy. An oral presentation of the thesis is required. Elective. 3 credits. (B03, Y)

OTMS-67500 Advanced Program Practice
Focuses on advanced practice in occupational therapy program development. Emphasis is on the application of scientific inquiry and evidence-based knowledge in clinical or educational settings. Develops grant writing, outcome assessment, and advanced project development skills. Emphasizing consultative, service leadership, and mentoring roles. Elective alternative to OTMS-67300 Individual Thesis Research II. Prerequisites: OTMS-42500; OTBS-42600. 3 credits. (B03, Y)

OTMS-68100 Advanced Concepts in Physical Disabilities
A seminar examining current literature and thought in the treatment of adults with disabilities, with opportunities to expand skills and knowledge in advanced techniques. Research into the effectiveness of occupational therapy modalities is included. Elective. Prerequisites: OTMS-65000 or OTMS-65100. 3 credits. (B03, IRR)

OTMS-68200 Advanced Concepts in Psychosocial Occupational Therapy
A seminar on current trends in occupational therapy in mental health care. Focus is on advanced concepts of human adaptation and treatment for psychiatric dysfunction. Implications for the future of occupational therapy in mental health are explored. Elective. Prerequisites: OTMS-65000 or OTMS-65100. 3 credits. (B03, IRR)

OTMS-68300 Advanced Concepts in Geriatric Rehabilitation
A seminar on health care and community support as they relate to the needs of disabled and nondisabled elderly people. Covers the importance of interdisciplinary practice; the rationale for prevention, environmental adaptation, and activity; factors involved in healthy, successful aging; and major health care legislation and reimbursement mechanisms and their ramifications in gerontological rehabilitation. Elective. Prerequisites: OTMS-65000 or OTMS-65100. 3 credits. (B03, IRR)

OTMS-68400 School-Based Occupational Therapy
A seminar exploring current trends in occupational therapy in schools. Includes the individual educational plan (IEP) process, the education team and system, treatment implementation, and documentation methodologies appropriate to school systems. Programming for children from birth to age 21 is included. Elective. Prerequisites: OTMS-65000 or OTMS-65100. 3 credits. (B03, IRR)

OTMS-68500 Hand Therapy
Seminar on the knowledge, skills, and practices of hand therapy and rehabilitation. Hand injuries and surgery, use of physical agent modalities in hand therapy, treatment protocols, advanced splinting, and ethical and legal issues are covered. Elective. Prerequisites: OTMS-65000 or OTMS-65100. 3 credits. (B03, IRR)

OTMS-68800 Occupational Therapy in Early Intervention
Study of the impact of biological, psychological, and sociocultural factors on the occupational development of young children with special needs. Designed to provide skills in assessment and family-centered intervention for infants and toddlers with special needs and their families. 3 credits. (B03, IRR)

OTMS-69000 Clinical Fieldwork II: Adult/Geriatric
Three months of full-time, supervised clinical experience with the opportunity to treat adult/geriatric patients. Assignment in training center programs approved in accordance with the standards of the American Occupational Therapy Association. Required. 6 credits. (B01 or 04, Y)

OTMS-69500 Clinical Fieldwork II: Elective Specialty
Two or three months of full-time, supervised clinical experience with opportunity to plan, implement, and evaluate treatment for patients or clients in a specialty area selected by the student in consultation with the fieldwork coordinator. Required. Prerequisites: OTMS-60000; OTMS-69000. Pass/fail only. 4 credits. (B05, Y)

OTMS-69600 Elective Internship
An eight-week, full-time (or equivalent) internship with the opportunity to apply occupational therapy theory and principles in a nontraditional setting under the supervision of a person with demonstrated competence in a specialized area of consultation or service delivery. Alternative to OTMS-69500 Clinical Fieldwork II: Elective Specialty. Prerequisites: OTMS-60000 or OTMS-69000. 4 credits. (B05, Y)

OTMS-69900 Graduate Independent Study
Individual research and writing in an area of occupational therapy practice, research, or theory under supervision of an occupational therapy faculty member. An approved design statement is required upon registration. Prerequisites: Permission of supervising faculty member, graduate department chair, and dean. Elective. 1–3 credits. (B01–05, IRR)

PHYSICAL THERAPY

Clinical Health Studies (B.S.), Physical Therapy (D.P.T.)

Michael A. Pagliarulo, Professor and Chair

Beginning in the fall of 2006 the Department of Physical Therapy will initiate the College’s first clinical doctoral program. The following primarily describes the undergraduate degree program.

The mission of the undergraduate physical therapy program at Ithaca College is to prepare skilled practitioners who render independent decisions and implement evidence-based, comprehensive care to maximize the function, health, and wellness
of their patients/clients. With an emphasis on professional behavior and lifelong learning skills, our graduates are competent to meet the challenges of a rapidly changing health care environment and are prepared for the roles of practitioner, manager, consultant, clinical educator, and scholar in a variety of settings.

The Department of Physical Therapy offers a six-year, dual-degree program in clinical health studies/physical therapy. Students receive a B.S. degree in clinical health studies after four years of study and a doctorate degree in physical therapy after completion of the graduate program. Students must complete the D.P.T. degree to be eligible for physical therapy licensure. The first five years of the program are spent on the Ithaca campus. The final year is conducted at the Rochester, New York, campus of Ithaca College, which is affiliated with the University of Rochester School of Medicine and Dentistry and the Strong Memorial Hospital. Students spend the summer semester following the junior year on the Rochester campus in a 10-week concentrated study of human anatomy. Students gain practical experience through full-time clinical education courses, totaling 40 weeks, at sites throughout the United States. The program is accredited by the Commission for Accreditation in Physical Therapy Education and is approved by the New York State Education Department.

B.S. in Clinical Health Studies

Note: This degree does not provide eligibility for licensure to practice physical therapy. It is awarded after four years of study in the six-year combined B.S./D.P.T. program in clinical health studies/physical therapy.

Special Academic Status Policy for Clinical Health Studies Majors and Doctorate of Physical Therapy

Grade requirements

Undergraduate Students — Students in the clinical science major must receive at least a grade of C- in all required courses. Students who do not have a minimum cumulative GPA of 2.80 at the completion of the spring semester of their sophomore year will be dismissed from the program.

To be eligible for admission to the doctorate in physical therapy program (graduate years), applicants must have completed the B.S. program in clinical health studies and have achieved at least a 3.00 cumulative GPA.

Graduate Students — Students are expected to enter the D.P.T. program the fall semester immediately following the awarding of the B.S. degree in clinical health studies. Graduate students must maintain a minimum GPA of 3.00 through each academic block/semester to avoid academic warning and must have a cumulative GPA of 3.00 to graduate.

During the graduate years of the program, any student receiving more than 6 credits of C (C+, C, or C-) or an F in a required course will be subject to dismissal from the physical therapy program and may not reenter the program. At the graduate level, no grades of D are awarded; the lowest passing grade is C-. Students must earn a satisfactory rating in all courses, including all required clinical education courses, before the degree will be awarded and certification granted for licensing.

Curricular requirements

Courses and credits must be satisfactorily completed in the allotted time and in the sequence shown in the undergraduate and graduate catalogs unless permission to deviate from the sequence or time frame has been approved by the department faculty. Candidates for a doctorate in physical therapy are required to meet all requirements for graduation within four years of their matriculation date into the graduate program.

Academic warning

Being placed on academic warning indicates that a student has a serious academic deficiency that, if not corrected, will result in suspension or dismissal from the clinical health studies/physical therapy program. Juniors, seniors, and graduate students on academic warning may not be allowed to progress to clinical education courses. Such students may be allowed to progress in the curriculum only under conditions specified and approved by the department. Remediation for removal of academic warning status will be determined by the department faculty.

Undergraduate Students — An undergraduate clinical health studies major will be placed on academic warning within the Department of Physical Therapy for the following semester if he or she:

1. receives less than a C- grade in, drops, or withdraws from any required course, or
2. does not complete the required courses in the allotted time, or
3. fails to remove an incomplete grade in the allotted time, or
4. fails, drops, or withdraws from a clinical education course, or
5. receives less than a 3.00 GPA during a semester taking required graduate (level 5 or higher) courses, or
6. fails to complete the requirements for general education and a minor prior to beginning the clinical health studies/physical therapy curriculum courses that are at the graduate level (level 5 or higher). For students entering the program as freshmen, the general education and minor requirements must be met by the end of the junior year.

Graduate Students — A graduate student in the physical therapy major will be placed on academic warning if he or she:

1. receives less than a 3.00 GPA in an academic block/semester, or
2. withdraws from a required course, or
3. fails to remove an incomplete grade in the allotted time, or
4. fails, drops, withdraws, or receives a U in a clinical education course.

Warning will be removed when both of the following criteria are met:

1. The student’s GPA for the following semester or academic block/semester is 3.00 or greater.
2. The student’s graduate cumulative GPA is 3.00 or greater.

Clinical Education — If the student receives a grade of F or U in a clinical education course, he or she will be placed on academic warning. The student must remediate this grade in one or more of the following ways as decided by the faculty:

1. Complete an equivalent clinical education course and receive a grade of pass or S,
2. Perform remedial work under the supervision of one or more faculty members, or
3. Satisfactorily complete an independent clinical study.

Suspension from the undergraduate program

A student who is subject to dismissal from the program may, under extenuating circumstances, be granted a suspension from the program. Alternatively, if the student is subject to warning, but not dismissal, and the academic deficiency is more severe than normal in warning situations, the student may be suspended from the program. A student on program suspension may not enroll in courses offered within the major. Such a student may apply for a leave of absence from Ithaca College in accordance with College policy. To be eligible for readmission, the student will have to fulfill certain conditions prescribed by the Department of Physical Therapy at the time of suspension.

Dismissal from the program

Undergraduate Students — An undergraduate student is subject to dismissal from the clinical health studies/physical therapy major if he or she:

1. receives less than a C- in two or more required courses in the same semester, or
2. is a freshman or sophomore on academic warning who fails to successfully complete (with grades of C- or better) at least 12 credit hours in a semester, or a junior or senior who has not successfully completed the minimum number of credit hours to progress to the next semester, or
3. has less than a 2.80 cumulative GPA at the end of the sophomore year, or
4. is a freshman or sophomore on academic warning for the preceding semester, or a junior or senior who has been on academic warning for any semester, and receives less than a C- (or fails to remove an incomplete grade in the specified period of time) in any required course, or
5. is a senior who receives less than a C- (or fails to remove an incomplete grade in the specified time) in any required course or clinical education prerequisite, or
6. fails, drops, withdraws, or receives a U in any two required courses, including clinical education courses, or
7. withdraws from a required course while on academic warning.

In an exceptional case, a student may be readmitted upon the satisfactory completion of conditions determined by the department faculty.
Clinical Health Studies

Graduate Students — A graduate student in the Department of Physical Therapy is subject to dismissal from the program if he or she
1. receives more than 6 credits of C (C-, C, C+) during the graduate years, or
2. receives a grade of F for any course in the graduate years (excluding clinical education courses), or
3. remains on academic warning for any two consecutive semesters or academic blocks, or
4. fails, drops, withdraws, or receives a U from any two clinical education courses (graduate or undergraduate), or
5. fails to successfully complete departmental remediation as prescribed by the faculty within the allotted time.

A student dismissed from the program is not eligible to remain in the Department of Physical Therapy but may be eligible to pursue other Ithaca College programs.

If academic performance deficiencies include failure to meet minimum standards of the School of Health Sciences and Human Performance or the Division of Graduate Studies, suspension or dismissal from Ithaca College may result.

A more complete description of special academic policies and procedures is available in the physical therapy department office.

Requirements for the Major in Clinical Health Studies — B.S.

Major department requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTBS-3100</td>
<td>Clinical Physiology</td>
<td>3</td>
</tr>
<tr>
<td>PTBS-5100</td>
<td>Human Anatomy</td>
<td>6</td>
</tr>
<tr>
<td>PTBS-51103</td>
<td>Pathology for Physical Therapists</td>
<td>3</td>
</tr>
<tr>
<td>PTBS-52001</td>
<td>Fundamentals of Patient/Client Care</td>
<td>2</td>
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<tr>
<td>PTBS-52102</td>
<td>Musculoskeletal Examination and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>PTBS-52203</td>
<td>Soft Tissue Palpation and Examination</td>
<td>2</td>
</tr>
<tr>
<td>PTBS-52304</td>
<td>Peripheral Joint Mobilization</td>
<td>1.5</td>
</tr>
<tr>
<td>PTBS-52405</td>
<td>Therapeutic Exercise</td>
<td>3</td>
</tr>
<tr>
<td>PTBS-53101</td>
<td>Electrotherapeutic Modalities and Physical Agents</td>
<td>4</td>
</tr>
<tr>
<td>PTBS-53702</td>
<td>Applied Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>PTBS-54001</td>
<td>Profession of Physical Therapy</td>
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</tr>
<tr>
<td>PTBS-54102</td>
<td>Preclinical Conference I</td>
<td>0</td>
</tr>
<tr>
<td>PTBS-54203</td>
<td>Professional Development I</td>
<td>1</td>
</tr>
<tr>
<td>PTBS-55001</td>
<td>Teaching and Learning in the Clinical Setting</td>
<td>1</td>
</tr>
<tr>
<td>PTBS-55602</td>
<td>Introduction to Health Care Systems</td>
<td>1</td>
</tr>
<tr>
<td>PTBS-56701</td>
<td>Research I: Scientific Inquiry</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total, department requirements</td>
<td>37</td>
</tr>
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</table>

Required courses outside major department — in the School of Humanities and Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL-11900–12000</td>
<td>Fundamentals of Biology</td>
<td>8</td>
</tr>
<tr>
<td>BIOL-20600</td>
<td>Primary Human Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>CHEM-11100–11300</td>
<td>Fundamentals of Chemistry with Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM-11200–11400</td>
<td>Organic Chemistry and Biochemistry with Lab</td>
<td>4</td>
</tr>
<tr>
<td>PHYS-10100–10200</td>
<td>Introduction to Physics I and II</td>
<td>8</td>
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<tr>
<td></td>
<td>Total, required courses outside major department</td>
<td>27</td>
</tr>
</tbody>
</table>

Electives outside major department

General education requirements (see School of Humanities and Sciences)

<table>
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<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Writing effectiveness</td>
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</tr>
<tr>
<td>Sell and society</td>
<td>12</td>
</tr>
<tr>
<td>2b Mathematics and formal reasoning</td>
<td>3</td>
</tr>
<tr>
<td>3a Language</td>
<td>6</td>
</tr>
<tr>
<td>3b Visual and performing arts</td>
<td>6</td>
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<tr>
<td>Total electives outside major department</td>
<td>27-30</td>
</tr>
</tbody>
</table>

These general education requirements must be completed by the end of the junior year. A maximum of 6 advanced placement credits may be applied toward appropriate courses to meet the general education requirement. Students must either achieve a score on the math placement exam placing them in group 1, 2, or 3, or if placed in group 4, earn a grade of C- or better in MATH-10000 or MATH-18000. Students must include in their coursework at least 6 credits with a global designation and 6 credits with a historical designation. These credits may be fulfilled in part by courses taken to fulfill general education requirements or as unrestricted (free) electives. Students may obtain sample course sequences for meeting these requirements from the department office. The following departmental courses may be taken as free electives.

PTBS-20200 Rehabilitation for Older Adults 1
PTBS-39900–39999 Selected Topics in Physical Therapy 1–3
PTBS-47000 Mechanical Diagnosis and Treatment of the Lumbar Spine 2
PTBS-49900–49999 Independent Study 1–3

Minors

Students are required to complete a minor. Students are encouraged to declare a minor early, as careful scheduling may be necessary to complete some minors. The minor can be in any department at Ithaca College. Generally, minors require 18–21 credits. Please review this catalog for a listing of available minors.

Total minor credits 18–21
Free electives 5–11
Total, B.S. in clinical health studies 120

Housing and Transportation Arrangements for Clinical Education

During each full-time clinical education, students are responsible for making housing arrangements and arrangements for transportation to and from the clinical facilities. Information on securing housing during education placements is available from the department offices on the respective campuses. For more information on student expenses for the graduate years, see p. 273.

Doctorate in Physical Therapy

For students who begin their program under the 2006–7 undergraduate catalog, the major department requirements for the doctorate in physical therapy are listed below. Note that the final year of the program takes place on the Rochester, New York, campus.

Graduation Requirements

To be considered for the doctorate in physical therapy, all students must complete the B.S. degree program in clinical health studies at Ithaca College and the required courses listed below.

Major department requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PDPT-51004</td>
<td>Pharmacology</td>
<td>2</td>
</tr>
<tr>
<td>PDPT-52506</td>
<td>Spine Examination and Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>PDPT-54300</td>
<td>Preclinical Conference II</td>
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<td>PDPT-54400</td>
<td>Professional Development II</td>
<td>0.5</td>
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<tr>
<td>PDPT-55700</td>
<td>Clinical Administration I</td>
<td>3</td>
</tr>
<tr>
<td>PDPT-55800</td>
<td>Clinical Administration II</td>
<td>1</td>
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<tr>
<td>PDPT-55900</td>
<td>Psychosocial Aspects of Patient Care</td>
<td>2</td>
</tr>
<tr>
<td>PDPT-56800</td>
<td>Research II: Evidence-Based Practice in Physical Therapy</td>
<td>2</td>
</tr>
<tr>
<td>PDPT-57000</td>
<td>Clinical Neuroanatomy</td>
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<tr>
<td>PDPT-57100</td>
<td>Clinical Neurophysiology</td>
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<tr>
<td>PDPT-57200</td>
<td>Normal Motor Development</td>
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<td>PDPT-57300</td>
<td>Fundamentals of the Neurologic Examination</td>
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<tr>
<td>PDPT-59000</td>
<td>Clinical Education I</td>
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<tr>
<td>PDPT-59102</td>
<td>Clinical Education II</td>
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<tr>
<td>PDPT-62607</td>
<td>Clinical Orthopedics</td>
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<tr>
<td>PDPT-63800</td>
<td>Pathokinesiology</td>
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<tr>
<td>PDPT-63900</td>
<td>Orthotics/Prosthetics</td>
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<td>PDPT-64500</td>
<td>Pre-Clinical Conference III</td>
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<td>PDPT-64400</td>
<td>Professional Development III</td>
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<td>PDPT-64700</td>
<td>Professional Development IV</td>
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<tr>
<td>PDPT-66900</td>
<td>Research III: Research Seminar</td>
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<tr>
<td>PDPT-67400</td>
<td>Neurological Rehabilitation I</td>
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<td>PDPT-67500</td>
<td>Neurological Rehabilitation II</td>
<td>3</td>
</tr>
<tr>
<td>PDPT-67600</td>
<td>Pediatric Rehabilitation</td>
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<tr>
<td>PDPT-68000</td>
<td>Differential Diagnosis</td>
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</tr>
<tr>
<td>PDPT-68100</td>
<td>Cardiac Testing and Management</td>
<td>2</td>
</tr>
<tr>
<td>PDPT-68200</td>
<td>Clinical Medicine/Surgery</td>
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</tr>
<tr>
<td>PDPT-68300</td>
<td>Pulmonary Testing and Management</td>
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<td>PDPT-68400</td>
<td>Case Study Seminar</td>
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<td>PDPT-68500</td>
<td>Wellness and Prevention</td>
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<tr>
<td>PDPT-69200</td>
<td>Clinical Education V (4)</td>
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<td>PDPT-69300</td>
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<tr>
<td>PDPT-69400</td>
<td>Clinical Education VI (6)</td>
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<tr>
<td>PDPT-69500</td>
<td>Total, doctorate in physical therapy</td>
<td>77</td>
</tr>
</tbody>
</table>

88
Clinical Education

The Department of Physical Therapy has established contracts with over 800 clinical education sites. It continues to explore new clinical sites to assure that students are offered the best clinical education. A current listing of sites is available in the Office of Experiential Learning. The directors of clinical education determine the sites to be used and the placement of the students for each of their clinical affiliations. Assignments to clinical affiliations are based on several factors, such as program requirements for a variety of experiences, faculty advisement, student performance, and student preference.

PHYSICAL THERAPY COURSES

PTBS-10200 Introduction to Physical Therapy NLA
Orientation to the responsibilities and activities of a physical therapist, the practice environments, representative professional association, and related professional literature. Experiential activities are included to enhance learning. 0.5 credits. (F or S,Y)

PTBS-20200 Rehabilitation for Older Adults NLA
Strategies aimed toward maximizing the functioning of older adults. A team approach is emphasized, drawing on disciplines such as physical, occupational, and recreational therapy, speech-language pathology and audiology, and rehabilitation nursing. Legal and ethical issues that pertain to the rehabilitation of this population are also addressed. Prerequisites: Sophomore standing. 1 credit. (F,Y)

PTBS-31300 Clinical Physiology NLA
The study of human physiology from a clinical perspective, addressing normal function in the primary physiologic systems and how therapeutic interventions influence system functions. Introduces pathophysiologic syndromes common to patients receiving therapy. Describes physiologic responses in patients receiving specific physical or occupational therapy interventions. Prerequisites: CHEM-11000, or CHEM-11100 and CHEM-11200; PTBS-51002; non-majors must have permission of instructor. 3 credits. (F,Y)

PTBS-47000 Mechanical Diagnosis and Therapy of the Lumbar Spine NLA
Introduction to mechanical diagnosis and treatment of the lumbar spine. Develops understanding of basic theories and thought processes in mechanical diagnosis. Exposes students to basic treatment interventions and skills in performing them. Prerequisites: PTBS-59000. Pass/Fail only. 2 credits. (S,Y)

PTBS-49900—PTBS-49999 Selected Topics in Physical Therapy LA/NLA
Clinical and professional topics of current interest to faculty and students. This course may be repeated for credit for different selected topics. Prerequisites: As appropriate to topics. Pass/Fail only. 1–3 credits. (IRR)

PTBS-51002 Human Anatomy NS LA
Study of the gross anatomical components of the human body through the use of lecture and cadaver dissection. Emphasis is placed on the musculoskeletal and neurovascular systems found in the extremities, trunk, chest, and abdominal walls, and in the head and neck. Prerequisites: BIOL-20600. 6 credits. (Sum,Y)

PTBS-51103 Pathology for Physical Therapists LA
Examination of the components of general disease and injury processes and specific components of selected diseases likely to be encountered in physical therapy practice. GENERAL PATHOLOGY TOPICS described include cell and tissue injury, inflammation, and the healing and repair process. Specific focus on diseases of the musculoskeletal, cardiovascular, pulmonary, integumentary, and nerve systems. Emphasis is placed on understanding the underlying mechanisms of structural and functional disruptions for adults, with secondary comparisons to pathology across the life span. This course provides background information necessary for performing differential diagnosis and patient treatments. Prerequisites: PTBS-51002; PTBS-31300. 3 credits. (S,Y)

PTBS-52001 Fundamentals of Patient/Client Care NLA
Provides first formal contact with patients/clients and patient/client care techniques. Exposes students to the initial steps in the patient/client professional relationship, including professional behaviors, communications (verbal and written), assessment of patient/client medical status, patient/client mobility techniques, and medical record documentation. The emphasis throughout the course is to develop the skills necessary to assure patient/client and student safety in the clinical environment. Corequisites: PTBS-51002. 2 credits (Sum,Y)

PTBS-52102 Musculoskeletal Examination and Evaluation NLA
Introduction to the patient/client management model with emphasis on examination, evaluation, and diagnosis of musculoskeletal problems of the extremities. Emphasis is placed on the following skills: patient history, range of motion, goniometry, muscle performance testing, flexibility testing, ligament testing, special orthopedic tests, and posture as it relates to the extremities. Prerequisites: PHYS-10100; PHYS-10200; PTBS-51002. 3 credits. (F,Y)

PTBS-52203 Soft Tissue Palpation and Examination NLA
This lecture and laboratory course examines various methods of soft tissue examination and intervention. It covers a broad spectrum of techniques while teaching the skills of the most commonly used methods. Some of the techniques are more scientifically evidence-based than others. The course emphasizes critical assessment and the need for research-based analysis. It develops palpation skills, including the examination and evaluation of soft tissue dysfunction. Prerequisite: PTBS-51002. Corequisites: PTBS-52102; PTBS-53702. 2 credits (F,Y)

PTBS-52304 Peripheral Joint Mobilization NLA
Lecture and laboratory course preparing students to incorporate passive mobility testing into the patient/client examination. Students also learn to use passive joint mobilization interventions for patient/client with peripheral joint pathologies. Prerequisites: PTBS-52102; PTBS-52203. 1.5 credits (S,Y)

PTBS-52405 Therapeutic Exercise NLA
A comprehensive analysis of the scientific principles of exercise commonly used in physical therapy practice. Specific exercise programs address muscle performance, endurance, mobility, and balance impairments. Adaptations of tissue on activity and immobilization are also discussed. Prerequisites: PTBS-31300; PTBS-52102; PTBS-53702. 3 credits. (S,Y)

PTBS-53101 Electrotherapeutic Modalities and Physical Agents NLA
The study of the biophysical, physiological, and clinical principles and procedures associated with the application of electromagnetic and acoustic energy in the prevention and treatment of pathological conditions. Prerequisites: PHYS-10100; PHYS-10200; PTBS-51002. 4 credits. (S,Y)

PTBS-53702 Applied Biomechanics NS LA
Application of mechanical principles to human movement. Particular attention to the effect of forces in producing normal movement. Students are required to apply their knowledge of anatomy to understanding individual joint function, as well as the integrated function of several joints during complex activities such as the normal gait. Prerequisites: PHYS-10100; PHYS-10200; PTBS-51002. 3 credits. (F,Y)

PTBS-54001 Profession of Physical Therapy NLA
Description of physical therapy as a profession in the United States, including history, professional organization, roles of the physical therapist and related personnel, and scope of practice. Prerequisites: Senior standing. 0.5 credit. (F,Y)

PTBS-54102 Preclinical Conference I NLA
Series of sessions to explain clinical education policies and procedures and choose sites for clinical affiliations. Prerequisites: Junior standing; clinical education sites are more scientifically evidence-based than others. The course emphasizes critical assessment and the need for research-based analysis. It develops palpation skills, including the examination and evaluation of soft tissue dysfunction. Prerequisite: PTBS-51002. Corequisites: PTBS-52102; PTBS-53702. 2 credits (F,Y)

PTBS-54203 Professional Development I NLA
Introduction to the Practice Act, Code of Ethics, roles of paraprofessionals, professional and ethical behavior, and effective communication styles. Instruction in clinical education teams, models of clinical education, and assessment of clinical performance. Prerequisites: PTBS-55501; PTBS-54001. 1 credit. (S,Y)

PTBS-55501 Teaching and Learning in the Clinical Setting NLA
Preparation to teach in a variety of settings and formats for academic, clinical, and professional purposes. Content is applicable to community presentations, group in-services, and presentations, as well as patient/family and other individualized teaching. Includes teaching/learning theories and styles, impact of age, culture, environment, and motivation, domains of learning, instructional objectives, teaching methods, and instructional technology. Evaluation, feedback, and outcome measurements are included. 1 credit. (F,Y)

PTBS-55602 Introduction to Health Care Systems NLA
Constructs of the U.S. health care system, with emphasis on how parts of the system influence patient referrals, delivery of care, and reimbursement. The course focuses on the health care system's influence on rehabilitation services with emphasis on allied health. Prerequisites: PTBS-54001. 1 credit. (S,Y)
PTBS-56701 Research I: Scientific Inquiry NS LA
Discussion of descriptive and inferential statistics. Particular emphasis is placed on the statistical interpretation of basic science and clinical research studies. The course involves use of calculators and computers. A student cannot receive credit for this course and MATH-24300 or MATH-24400. Prerequisites: Math placement in group 1 or 2. 3 credits. (F,Y)

PDPT-51004 Pharmacology II NLA
The chemistry of basic drugs, including such variables as how the drug is administered, absorbed, distributed, stored, metabolized, and excreted. Evaluation of how drugs are selected for specific pathology is also included. Special emphasis is placed on drugs that are commonly used to treat disorders seen in patients receiving physical therapy. Prerequisites: PDPT-57100. 2 credits. (S,Y)

PDPT-52506 Spine Examination and Rehabilitation NLA
Examination of and interventions for patients with neuromusculoskeletal conditions affecting the spine. Students learn objective measurements of spinal posture, mobility, and function to differentiate among various spinal conditions. Selected interventions are presented and practiced. Prerequisites: PTBS-52102; PTBS-53702. 3 credits. (F,Y)

PDPT-54300 Preclinical Conference II NLA
Offers the student the opportunity to prepare for the second clinical internship. This includes site selection, cardiopulmonary resuscitation procedures, updating immunizations, developing a student profile, and establishing contact with the assigned clinical site. In addition, the student will develop a personal plan and objectives for the affiliation experience. Prerequisites: PTBS-54102. Pass/fail only. 0 credits. (F,Y)

PDPT-54400 Professional Development II NLA
Principles and practices in career development. Includes professional behavior and personal abilities, resume writing, professional portfolios, effectiveness as an individual and team player, and professional development during clinical affiliation. Prerequisites: PTBS-54203. 0.5 credit. (S,Y)

PDPT-55700 Clinical Administration I NLA
The practice of effective and efficient administration of a rehabilitation setting. Emphasis is on the impact of health care reform on departmental organization and planning, reimbursement, foundations of control, management information systems, fiscal planning, risk management and quality assurance, legal issues and external regulatory mechanisms, marketing and public relations, and assessment of service outcomes. 3 credits. (F,Y)

PDPT-55800 Clinical Administration II NLA
An examination of how basic personnel management techniques are applied in the rehabilitation clinical setting. Included are concepts and theories of motivation, leadership and power, organizational behavior, organizational climate, performance rewards and appraisal, and conflict management. A case study approach is used throughout the course. Prerequisites: PDPT-55700. 1 credit. (S,Y)

PDPT-55900 Psychosocial Aspects of Patient Care NLA
A review of psychological and social issues affecting patients and therapists in the clinic, home, and community environments. Addresses special topics relevant to assessing a patient’s and a clinician’s response to illness. These topics include terminal illness, sexuality and illness or disability, psychosomatic illness, and selected psychiatric disorders. Prerequisites: PDPT-59000. 2 credits. (S,Y)

PDPT-56800 Research II: Evidence-Based Practice in Physical Therapy NLA
Focus is on how research is used to guide clinical decision making and form the basis for contemporary physical therapist practice. Specifically, this course will build upon principles introduced in PTBS-56701 Research I: Introduction to Scientific Inquiry, and acquaint students with how to access and critically evaluate the literature to answer clinical questions. Students will evaluate and synthesize all previous professional coursework. Prerequisites: PTBS-56701. 2 credits. (S,Y)

PDPT-57000 Clinical Neuroanatomy NLA
Comprehensive study of the structural features and connectivity of the human central nervous system. Emphasis will be placed on understanding the clinical relationships of the morphological basis of neurological dysfunction. Exposes students to medical imaging techniques in order to provide a basis to begin neurological differential diagnosis for physical therapy. Prerequisites: PTBS-51002. Corequisites: PDPT-57100. 3 credits. (S,Y)

PDPT-57100 Clinical Neurophysiology NLA
Clinical neurophysiology addresses the structure and function of nerve cells, somatosensory systems, motor control systems, and the autonomic nervous system. The emphasis of the course is on the development of an understanding of the processes associated with normal functioning of the nervous system in the control of posture movement. Selected examples of nervous system disorders are integrated into each major content area in order to illustrate how an understanding of normal function is important to the understanding of pathology in the nervous system. Prerequisites: PTBS-51300; PTBS-52405. Corequisites: PDPT-57000. 3 credits. (F,Y)

PDPT-57200 Normal Motor Development NLA
Normal motor developmental processes from the embryo to old age. Review of research in the theories of motor control, motor learning, and motor development. Emphasis is placed on the relationship of these theories to growth and development through the lifespan. Topics include the development of musculoskeletal, cardiopulmonary, sensory, and nervous system changes. Other lifespan issues include the development of posture, locomotion, fine motor, speech-language, cognition, fitness, culture/diversity issues, and functional and developmental examination tools. Prerequisites: PTBS-53702. Corequisites: PDPT-57000; PDPT-57100. 3 credits. (F,Y)

PDPT-57300 Fundamentals of the Neurological Examination NLA
Prepares students to perform a complete physical therapy neurological examination of patients with peripheral and central nervous system disorders. Students will be directed to perform specific tests that examine cognition, sensation, perception, tone, motor function, balance, gait, and function. The measurement properties of these clinical tests will be discussed. Specific emphasis will be placed on the electrophysiological examination of peripheral disorders. Prerequisites: PDPT-57000, PDPT-57100. 3 credits. (S,Y)

PDPT-59200 Clinical Education II NLA
The second placement for the student in a clinical environment where he or she has the close supervision of a clinical instructor. This experience provides an opportunity to practice and develop skills in analyzing motor performance, examination and intervention of joint and soft tissue pathologies, as well as spinal dysfunction. The student should also exhibit an understanding of the administration of a physical therapy department. The student continues to synthesize all previous professional coursework. Prerequisites: PDPT-59000. Pass/fail only. 4 credits.

PDPT-62607 Clinical Orthopedics NLA
Reviews the medical and conservative management of common orthopedic disorders. Initially the course focuses on review of basic principles of orthopedic diagnosis and pathology, followed by medical and conservative management of common orthopedic disorders of the extremities. An expectation is that students will integrate information gained from prior coursework. Prerequisites: PDPT-52506. Corequisites: PDPT-63800. 2 credits. (S,Y)

PDPT-63800 Pathokinesiology NLA
Presents specific pathological conditions (primarily organized according to anatomical regions) that result in disorders of posture, movement, and locomotion. The presentations and analyses of these pathokinesiological conditions include neurological, neuromotor, and musculoskeletal aspects with respect to the causes of dysfunction. Laboratory exercises require the student to use movement analysis equipment to demonstrate pathomechanics and abnormal movement patterns. 3 credits. (F,Y)

PDPT-63900 Orthotics/Prosthetics NLA
An in-depth review of the principles and practices of orthotics and prosthetics as applied by a physical therapist. This includes a survey of the basic
A series of sessions to explain the policies and procedures for graduate clinical education and choose sites for graduate clinical affiliations. Pass/fail only. 2 credits. (S,Y)

PDPT-66400  Professional Development III

Prepares students for their terminal clinical experiences. Students create a professional development plan. Strategies for time management, stress management, and adaptability in the clinical setting are presented. Clinical cases allow the students to explore ethical decision making, patient advocacy, and application of professionalism. Prerequisites: PDPT-54400. 1 credit. (F,Y)

PDPT-66700  Professional Development IV

Prepares the student to enter the profession. Topics include current issues in physical therapy, direction of the profession, postgraduate development and specialization, and professional employment skills. Prerequisites: PDPT-64000; PDPT-69200. 0.5 credit. (S,Y)

PDPT-66900  Research III: Research Seminar

This course is taught over three academic blocks (1 credit per block). It is designed to provide a mentored experience in research for entry-level physical therapy students. Working in groups with a faculty adviser, the student will propose a hypothesis, complete a literature review, and develop a research method, followed by data collection and a summary of results. The style of the projects is not restricted, allowing freedom to design projects that are practical and meaningful. At the completion of the project each research team will present its findings, which will be evaluated by faculty, professionals from the community, and student peers. Prerequisites: PTBS-56701; PDPT-56800. 3 credits. (F,Y)

PDPT-67400  Neurological Rehabilitation I

Focus primarily on specific movement-related impairments, functional limitations, and disabilities experienced by individuals with neurologic involvement as a result of acquired nonprogressive disorders of the central nervous system (CNS). Students will be directed to apply a systematic clinical decision-making approach to physical therapy care, integrating findings from a patient's medical history and reports of other rehabilitation team members with results of standardized neurologic examinations, observations of movement, and analysis of functional tasks. Students will be guided to synthesize this information to identify functional problems and their probable causes (i.e., reach a physical therapy diagnosis), establish a realistic prognosis, and begin to plan and execute appropriate physical therapy interventions for individuals with acquired, nonprogressive CNS disorders. Prerequisites: PDPT-57300. 3 credits. (F,Y)

PDPT-67500  Neurological Rehabilitation II

Builds on concepts introduced in PDPT-67400 Neurological Rehabilitation I. Focuses on the movement-related impairments, functional limitations, and disabilities experienced by individuals with neurologic involvement as a result of specific acquired progressive or nonprogressive disorders of the central and peripheral nervous systems. Students will learn to apply a systematic clinical decision-making approach as they integrate findings from a physical therapy examination to identify functional problems and their causes (i.e., reach a physical therapy diagnosis), establish a realistic prognosis, and plan and execute physical therapy interventions for individuals with nervous system disorders of a progressive or nonprogressive nature. Prerequisites: PDPT-67400. 3 credits. (S,Y)

PDPT-67600  Pediatric Rehabilitation

The etiology; pathology; diagnosis; medical, surgical, and clinical examination; evaluation; and physical therapy management of pediatric disorders of the neuromuscular system. The physiological basis and therapeutic techniques of neurophysiologic approaches to intervention are examined. 3 credits. (F,Y)

PDPT-68000  Differential Diagnosis in Physical Therapy

Integrates medical screening of major organ systems with existing physical therapy examination techniques in order to enable the student to differentiate between patients/clients who are appropriate for physical therapy intervention and those who should be referred to other medical practitioners. Complex cases with multi-system diseases will be discussed. Prerequisites: PTBS-51103. 1 credit. (F,Y)

PDPT-68100  Cardiac Testing and Management

A review of normal cardiac physiology and the response of this system to exercise and disease. Cardiac pathologies are discussed, including a review of the medical and surgical management of specific disease groups. Evaluation procedures utilized to determine the status of the cardiovascular system's performance are studied and performed in the laboratory. Clinical management procedures used by all members of the rehabilitation team are reviewed with emphasis on specific physical therapy procedures. 2 credits. (S,Y)

PDPT-68200  Clinical Medicine/Surgery

General overview of most common diseases and surgical interventions in the practice of general medicine. Disease processes that demonstrate systemic manifestations and require intervention by a multidisciplinary team will be studied. Presentations will emphasize medical/surgical management procedures and a problem-based approach to physical therapy procedures that may be applied to this patient population. Prerequisites: PTBS-51103. 3 credits. (F,Y)

PDPT-68300  Pulmonary Testing and Management

Review of normal pulmonary physiology and the response of the pulmonary system to exercise and disease. Pulmonary pathologies are discussed, including a review of the medical and surgical management of specific disease groups. Evaluation procedures utilized to determine the status of the pulmonary system's performance are studied and performed in the laboratory. Clinical management procedures used by all members of the rehabilitation team are reviewed, with emphasis on specific physical therapy procedures utilized in treating patients with pulmonary disease. 2 credits. (S,Y)

PDPT-68400  Case Study Seminar

Applies the principles of evidence-based practice to selected patient cases from current practice settings, across a variety of physical therapy diagnoses. The case studies are an intensive investigation designed to analyze and understand medical and/or surgical factors important to the etiology, care, and outcome of the patients' problems. Included are factors related to cardiovascular, gastrointestinal, endocrine/rheumatological, musculoskeletal, neurological, genitourinary, pulmonary, psychosocial, and hematologic-physical oncologic problems. Prerequisites: PDPT-68000; PDPT-68200. 2 credits. (S,Y)

PDPT-69200  Clinical Education III

A student's third placement in a clinical environment, giving the opportunity to apply more advanced theories and treatment procedures to a selected patient caseload with guidance from a clinical instructor. Eight weeks in length. Prerequisites: Satisfactory completion of all prior required coursework. Pass/fail only. 4 credits. (F,Y)

PDPT-69300–PDPT-69400  Clinical Education IV–V

The student's final placements in a clinical environment. Two eight-week sessions. Prerequisites: Satisfactory completion of all prior required coursework. Pass/fail only. 4 credits per course. (Sum,Y)

91
through full-time clinical education courses, totaling 30 weeks, at sites throughout the United States. The program is accredited by the Commission for Accreditation of Physical Therapy Education and is approved by the New York State Education Department.

Students accepted into the fall 2005 physical therapy class will have the opportunity to earn a D.P.T. through a transitional program that will be offered after the successful completion of the M.S. program.

B.S. in Clinical Science

Note: This degree does not provide eligibility for licensure to practice physical therapy. It is awarded after four years of study in the five-year combined B.S./M.S. program in clinical science/physical therapy.

Special Academic Status Policy for Clinical Science and Physical Therapy Majors

Grade requirements

Undergraduate Students — Students in the clinical science major must receive at least a grade of C- in all required courses.

Students who do not have a minimum cumulative GPA of 2.70 at the completion of the spring semester of their sophomore year will be dismissed from the program.

To be eligible for admission to the master of science program in physical therapy (fifth year), applicants must have completed the B.S. program in clinical science and have achieved at least a 3.00 cumulative GPA.

Graduate Students — Students are expected to enter the M.S. program the fall semester immediately following the awarding of the B.S. degree in clinical science. Fifth-year students must maintain a minimum GPA of 3.00 through each academic block to avoid academic warning and must have a cumulative GPA of 3.00 to graduate.

During the fifth year of the program, any student receiving more than 6 credits of C (C-, C, C+) or an F in a required course will be subject to dismissal from the physical therapy program and may not reenroll in the program. At the master's degree level, no grades of D are awarded; the lowest passing grade awarded is C-. Students must earn a satisfactory rating in all courses, including all required clinical education courses, before the degree will be awarded and certification granted for licensure.

Curricular requirements

Courses and credits must be satisfactorily completed in the allotted time and in the sequence shown in the undergraduate and graduate catalogs unless permission to deviate from the sequence or time frame has been approved by the department faculty. Candidates for a master's degree in physical therapy are required to meet all requirements for graduation within three years of their matriculation date into the graduate program.

Academic warning

Being placed on academic warning indicates that a student has a serious academic deficiency that, if not corrected, will result in suspension or dismissal from the clinical science/physical therapy program. Junior, senior, and graduate students on academic warning may not be allowed to progress to clinical education courses. Such students may be allowed to progress in the curriculum only under conditions specified and approved by the department. Remediation for removal of academic warning status will be determined by the department faculty.

Undergraduate Students — An undergraduate clinical science major will be placed on academic warning within the Department of Physical Therapy for the following semester if he or she

1. receives less than a C- grade in, drops, or withdraws from any required course, or
2. does not complete the required courses in the allotted time, or
3. does not complete the general education requirements by the end of the junior year, or
4. does not complete the liberal arts focus area or comparable credits in the minor by the end of the junior year, or
5. fails to remove an incomplete grade in the allotted time, or
6. fails, drops, or withdraws from a clinical education course, or
7. fails to complete the requirements for general education and the liberal arts focus area (or the minor).

Graduate Students — A graduate student in the physical therapy major will be placed on academic warning if he or she

1. receives a GPA below 3.00 in an academic block, or
2. withdraws from a required course, or
3. fails to remove an incomplete grade in the allotted time, or
4. fails, drops, withdraws, or receives a U for a clinical education course.

Warning will be removed when both of the following criteria are met:

1. The student's GPA for the following semester is 3.00 or greater.
2. The student's overall GPA for the graduate year is 3.00 or greater.

Clinical Education — If the student receives a grade of F or U in a clinical education course, he or she will be placed on academic warning. The student must remediate this grade in one or more of the following ways as decided by the faculty:

1. Attend an equivalent affiliation and receive a grade of pass or S,
2. Perform remedial work under the supervision of one or more faculty members, or
3. Satisfactorily complete an independent clinical study.

Suspension from the undergraduate program

A student who is subject to dismissal from the program may, under extenuating circumstances, be granted a suspension from the program. Alternatively, if the student is subject to warning, but not dismissal, and the academic deficiency is more severe than normal in warning situations, the student may be suspended from the program. A student on program suspension may not enroll in courses offered within the major. Such a student may apply for a leave of absence in accordance with College policy. To be eligible for readmission, the student will have to fulfill certain conditions prescribed by the department at the time of suspension.

Dismissal from the program

Undergraduate Students — An undergraduate student is subject to dismissal from the program if he or she

1. receives less than a C- in two or more required courses in the same semester, or
2. is a freshman or sophomore on academic warning who fails to successfully complete (with grades of C- or better) at least 12 credits in a semester, or a junior or senior who has not successfully completed the minimum number of credit hours to progress to the next semester, or
3. has less than a 2.70 cumulative GPA at the end of the sophomore year, or
4. is a freshman or sophomore on academic warning for the preceding semester, or a junior or senior who has been on academic warning for any semester, and receives less than a C- (or fails to remove an incomplete grade in the specified period of time) in any required course, or
5. is a senior who receives less than a C- (or fails to remove an incomplete grade in the specified time) in any required course or clinical affiliation prerequisite, or
6. fails, drops, or withdraws from any two required courses, including clinical education courses, or
7. withdraws from a required course while on academic warning.

In an exceptional case, a student may be readmitted upon the satisfactory completion of conditions determined by the department faculty.

Graduate Students — A graduate student in the Department of Physical Therapy is subject to dismissal from the program if he or she

1. receives more than 6 credits of C (C-, C, C+) during the graduate year, or
2. receives a grade of F for any course in the graduate year (excluding clinical education courses), or
3. remains on academic warning for any two consecutive academic blocks, or
4. fails, drops, withdraws, or receives a U from any two clinical education courses (graduate or undergraduate), or
5. fails to successfully complete departmental remediation as prescribed by the faculty within the allotted time.
A student dismissed from the program is not eligible to remain in the physical therapy department but may be eligible to pursue other Ithaca College programs.

If academic performance deficiencies include failure to meet minimum standards of the School of Health Sciences and Human Performance or the Division of Graduate Studies, suspension or dismissal from Ithaca College may result.

A more complete description of the special academic policies and procedures for students is available at the physical therapy department office.

Requirements for the Major in Clinical Science — B.S.

Major department requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<td>PTBS-30000</td>
<td>Preclinical Conference I</td>
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<td>PTBS-30100</td>
<td>Preclinical Conference II</td>
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<td>PTBS-31000</td>
<td>Human Anatomy</td>
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<tr>
<td>PTBS-31100</td>
<td>Massage and Surface Anatomy</td>
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<tr>
<td>PTBS-31200</td>
<td>Mobility Training</td>
<td>1</td>
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<td>PTBS-31300</td>
<td>Clinical Physiology</td>
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<td>PTBS-31400</td>
<td>Musculoskeletal Examination and Evaluation</td>
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<tr>
<td>PTBS-31500</td>
<td>Electothereapeutic Modalities and Physical Agents</td>
<td>4</td>
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<td>PTBS-32200</td>
<td>Professional Development I</td>
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<tr>
<td>PTBS-32300</td>
<td>Teaching and Learning in the Clinical Setting</td>
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<td>PTBS-32500</td>
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<td>PTBS-32600</td>
<td>Introduction to Health Care Systems</td>
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<td>PTBS-40100</td>
<td>Biomechanics</td>
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<td>PTBS-40200</td>
<td>Therapeutic Exercise</td>
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<td>PTBS-40300</td>
<td>Pathology for Physical Therapists</td>
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<td>PTBS-41000</td>
<td>Clinical Education I</td>
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<td>PTBS-41100</td>
<td>Foundations of Clinical Administration I: Health Care Services</td>
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<td>PTBS-42200</td>
<td>Clinical Administration II: Personnel Management</td>
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<td>PTBS-45100</td>
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<td>PTBS-46200</td>
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<td>PTBS-46300</td>
<td>Normal Motor Development</td>
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<td>PTBS-46400</td>
<td>Electrophysiological Examination and Evaluation</td>
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<tr>
<td>PTBS-46500</td>
<td>Soft Tissue and Peripheral Joint Examination and Mobilization</td>
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<tr>
<td>PTBS-46600</td>
<td>Spine Examination and Rehabilitation</td>
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<tr>
<td>PTBS-47100</td>
<td>Psychosocial Aspects of Patient Care</td>
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<tr>
<td>PTBS-49000</td>
<td>Clinical Education II</td>
<td>3</td>
</tr>
</tbody>
</table>

Total, within department: 85

Required courses outside major department — in the School of Humanities and Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL-11900–BIOL-12000</td>
<td>Fundamentals of Biology</td>
<td>8</td>
</tr>
<tr>
<td>BIOL-20600</td>
<td>Primary Human Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>CHEM-11000–CHEM-11000</td>
<td>Fundamentals of Chemistry with Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM-11200–CHEM-11400</td>
<td>Organic Chemistry and Biochemistry with Lab</td>
<td>4</td>
</tr>
<tr>
<td>PHYS-10100–PHYS-10200</td>
<td>Introduction to Physics I and II</td>
<td>8</td>
</tr>
</tbody>
</table>

Total, required courses outside major department: 27

Electives outside of major department

General education requirements (see School of Humanities and Sciences)

- Writing effectiveness: 0-3
- Sell and society: 12
- 2b Mathematics and formal reasoning: 3
- 3a Language: 6
- 3b Visual and performing arts: 6

These general education requirements must be completed by the end of the junior year. A maximum of 6 advanced placement credits may be applied toward appropriate courses to meet the general education requirement. Students must either achieve a score on the math placement exam placing them in group 1, 2, or 3, or if placed in group 4, earn a grade of C- or better in MATH-10000 or MATH-18000. Students must include in their coursework at least 6 credits with a global designation and 6 credits with a historical designation. These credits may be fulfilled (in part) by courses taken to fulfill general education requirements, the liberal arts focus area below, or as unrestricted (open/free) electives.

Liberal arts focus

- Nine liberal arts credits at level 2 or above with at least 3 credits at level 3 or above in a single discipline, or a minor, which must be completed by the end of the junior year. May include general education requirements.
- Open electives: 6–9
- Total, electives: 45
- Total, B.S. in clinical science: 137

Students may obtain sample course sequences for meeting these requirements from the department office. The following departmental courses may be taken as open electives.

- PTBS-20200 Rehabilitation for Older Adults: 1
- PTBS-39900–PTBS-39999 Selected Topics in Physical Therapy: 1–3
- PTBS-47000 Mechanical Diagnosis and Treatment of the Lumbar Spine: 2
- PTBS-49900–PTBS-49999 Independent Study: 1–3
- PTBS-59800 Honors Seminar in Physical Therapy: 1
- PTBS-59900 Honors Project: 3

Housing and Transportation Arrangements for Clinical Education

During each full-time clinical education, students are responsible for making housing arrangements and for transportation to and from clinical facilities. Information on securing housing during education placements is available from the department offices on the respective campuses. For more information on student expenses for the final year, see p. 273.

M.S. in Physical Therapy

The fifth year in physical therapy at Ithaca College is an extension of the B.S. degree program in clinical science. The final year of study, a 12-month period, takes place at Ithaca College physical therapy department facilities located at the Rochester Center of Ithaca College, which is affiliated with the University of Rochester School of Medicine and Strong Memorial Hospital. For students who began their program under the 2005–2006 undergraduate catalog the major department requirements for the M.S. in physical therapy are listed below.

Graduation Requirements

To be considered for graduation, all students must complete the following requirements:

1. B.S. degree program in clinical science at Ithaca College;
2. Required courses listed below;
3. Either a group research project or an individual thesis. The thesis option is available only to students with a GPA of 3.30 or higher who pass a faculty review.

Major department requirements

- PTMS-60100 Clinical Education I
- PTMS-61000 Clinical Education III
- PTMS-61100 Clinical Education IV (3) and
- PTMS-61200 Clinical Education V (3) or
- PTMS-61200 Clinical Education VI (6) or
- PTMS-61300 Clinical Science: Orthopedics: 3
- PTMS-61400 Clinical Science: Medicine: 2
- PTMS-61500 Clinical Science: Neurology I: 3
- PTMS-61600 Clinical Science: Surgery: 3
- PTMS-61700 Clinical Science: Neurology II: 3
- PTMS-61800 Clinical Science: Pediatrics: 3
- PTMS-61900 Geriatrics in Physical Therapy: 1
- PTMS-62200 Pre-Clinical Conference III: 0
- PTMS-62400 Professional Development III: 1
- PTMS-62500 Wellness and Prevention: 1
- PTMS-62600 Professional Development IV: 0.5
- PTMS-63000–PTMS-63100 Research I–II or
- PTMS-63000–PTMS-63100 Thesis I–II: 4

Total, M.S. in physical therapy: 43.5

93

Physical Therapy
Clinical Affiliations

The Department of Physical Therapy has established contracts with over 500 clinical affiliation sites. It continues to explore new clinical sites to assure that students are offered the best clinical education. A current listing of sites is available in the Office of Experiential Learning. The directors of clinical education determine the sites to be used and the placement of the students for each of their clinical affiliations. Assignments to clinical affiliations are based on several factors such as program requirements for a variety of experiences, faculty advisement, student performance, and student preference.

PHYSICAL THERAPY COURSES

PTBS-10200 Introduction to Physical Therapy NLA
Orientation to the responsibilities and activities of a physical therapist, the practice environments, representative professional association, and related professional literature. Experiential activities are included to enhance learning. 0.5 credits. (F or S, Y)

PTBS-20200 Rehabilitation for Older Adults NLA
Strategies aimed toward maximizing the functioning of older adults. A team approach is emphasized, drawing on disciplines such as physical, occupational, and recreational therapy, speech-language pathology and audiology, and rehabilitation nursing. Legal and ethical issues that pertain to the rehabilitation of this population are also addressed. Prerequisites: Sophomore standing. 1 credit. (F, Y)

PTBS-30000 Preclinical Conference I NLA
Series of sessions to explain clinical education policies and procedures and choose sites for clinical affiliations. Prerequisites: Junior standing in clinical science major. Pass/fail only. 0 credits. (F, Y)

PTBS-30100 Preclinical Conference II NLA
Series of sessions to explain clinical education policies and procedures and choose sites for clinical affiliations. Prerequisites: PTBS-30000. Pass/fail only. 0 credits. (F, Y)

PTBS-31000 Human Anatomy NS LA
Study of the gross anatomical components of the human body through the use of lecture and cadaver dissection. Emphasis is placed on the musculoskeletal and neurovascular systems found in the extremities, trunk, chest, and abdominal walls, and in the head and neck. Prerequisites: BIOL-20600. 6 credits. (Sum, Y)

PTBS-31100 Massage and Surface Anatomy NLA
This predominantly laboratory-based course includes a presentation of theory, principles, and techniques of various forms of therapeutic massage. Regional palpation and surface anatomy are emphasized as they are presented in PTBS-31000 Human Anatomy. Corequisites: PTBS-31000. 1 credit. (Sum, Y)

PTBS-31200 Mobility Training NLA
Principles and skills involved in ambulation training with and without assistive devices, transfer training, wheelchair management, safety in patient handling, and proper body mechanics. Corequisites: PTBS-31000. 1 credit. (Sum, Y)

PTBS-31300 Clinical Physiology NLA
The study of the human physiology from a clinical perspective, addressing normal function in the primary physiologic systems and how therapeutic interventions influence system functions. Introduces pathophysiology syndromes common to patients receiving therapy. Describes physiologic responses in patients receiving specific physical or occupational therapy interventions. Prerequisites: CHEM-11000, or CHEM-11100 and CHEM-11200; PTBS-31000; nonmajors must have permission of instructor. 3 credits. (F, Y)

PTBS-31400 Musculoskeletal Examination and Evaluation NLA
Introduction to the patient/client management model with emphasis on examination, evaluation, and diagnosis of musculoskeletal problems of the extremities. Emphasis is placed on the following skills: patient history, range of motion, goniometry, muscle performance testing, flexibility testing, ligament testing, special orthopedic tests, and posture as it relates to the extremities. Prerequisites: PHYS-10100; PHYS-10200; PTBS-31000; PTBS-31100. 3 credits. (F, Y)

PTBS-31500 Electrotherapeutic Modalities and Physical Agents NLA
The study of the biophysical, physiological, and clinical principles and procedures associated with the application of electromagnetic and acoustic energy in the prevention and treatment of pathological conditions. Prerequisites: PHYS-10100, PHYS-10200, PTBS-31000, PTBS-31100. 4 credits. (S, Y)

PTBS-32200 Professional Development I NLA
Introduction to the Physical Therapy Practice Act code of ethics, roles of paraprofessionals, professional and ethical behavior, and effective communication styles. Instruction in clinical education teams, models of clinical education, and assessment of clinical performance. Prerequisites: PTBS-32300; PTBS-32500. 1 credit. (S, Y)

PTBS-32300 Teaching and Learning in the Clinical Setting NLA
Preparation to teach in a variety of settings and formats for academic, clinical, and professional purposes. Content is applicable to community presentations, group in-services, and presentations, as well as patient/family and other individualized teaching. Includes teaching/learning theories and styles, impact of age, culture, environment, and motivation, domains of learning, instructional objectives, teaching methods, and instructional technology. Evaluation, feedback, and outcome measurements are included. Prerequisites: PTBS-31100; PTBS-31200. 1 credit. (F, Y)

PTBS-32500 Profession of Physical Therapy NLA
Description of physical therapy as a profession in the United States including history, professional organization, roles of the physical therapist and related personnel, and scope of practice. Prerequisites: Junior standing. 0.5 credit. (F, Y)

PTBS-32600 Introduction to Health Care Systems NLA
Constructs of the U.S. health care system, with emphasis on how system components influence patient referrals, delivery of care, and reimbursement. The course focuses on the health care system's influence on rehabilitation services with emphasis on allied health. Prerequisites: PTBS-32500. 1 credit. (S, Y)

PTBS-39000 Biostatistics NS LA
Discussion of descriptive and inferential statistics. Particular emphasis is placed on the statistical interpretation of basic science and clinical research studies. The course involves use of calculators and computers. A student cannot receive credit for this course and MATH-24300 or MATH-24400. Prerequisites: Math placement in group 1 or 2. 3 credits. (F, Y)

PTBS-39900–PTBS-39999 Selected Topics in Physical Therapy LA/NLA
Clinical and professional topics of current interest to faculty and students. This course may be repeated for credit for different selected topics. Prerequisites: As appropriate to topics. Pass/Fail only. 1–3 credits. (IRR)

PTBS-40100 Biomechanics NS LA
Application of mechanical principles to human movement. Particular attention to the effect of forces in producing normal movement. Students are required to apply their knowledge of anatomy toward understanding individual joint function, as well as the integrated function of several joints during complex activities such as normal gait. Prerequisites: PHYS-10100; PHYS-10200; PTBS-31000; PTBS-31100. 3 credits. (F, Y)

PTBS-40200 Therapeutic Exercise NLA
A comprehensive analysis of the scientific principles of exercise commonly used in physical therapy practice. Specific exercise programs address muscle performance, endurance, mobility, and balance impairments. Adaptations of tissue on activity and immobilization are also discussed. Prerequisites: PTBS-31300; PTBS-31400; PTBS-40100. 3 credits. (S, Y)

PTBS-40300 Pathology for Physical Therapists LA
Examination of the components of general disease and injury processes and specific components of selected diseases likely to be encountered in physical therapy practice. General pathology topics described include cell and tissue injury, inflammation, and the healing and repair process. Specific focus on diseases of the musculoskeletal, cardiovascular, pulmonary, integumentary, and nerve systems. Emphasis is placed on understanding the underlying mechanisms of structural and functional disruptions for adults, with secondary comparisons to pathology across the life span. This course provides background information necessary for performing differential diagnosis and patient treatments. Prerequisites: PTBS-31000; PTBS-31300. 3 credits. (S, Y)

PTBS-41000 Clinical Education I NLA
The initial assignment to one of a variety of health care facilities for six weeks. The student is assigned to specified clinical tasks under the close supervision of the clinical instructor. Professional conduct and appearance, basic musculoskeletal assessment and treatment, and application of physical agents are emphasized. Prerequisites: PTBS-30000; PTBS-31500; PTBS-39000; PTBS-40200; PTBS-40300. Pass/fail only. 3 credits. (Sum, Y)
Develops understanding of basic theories and thought processes in mechanical diagnosis. Exposes students to basic treatment interventions and skills in performing them. Prerequisites: PTBS-41000. Pass/fail only. 2 credits. (S,Y)

**PTBS-47100 Psychosocial Aspects of Patient Care**

A review of psychological and social issues affecting patients and therapists in the clinic, home, and community environments. Addresses special topics relevant to assessing a patient’s and a clinician’s response to illness. These topics include terminal illness, sexuality and illness or disability, psychosomatic illness, and selected psychiatric disorders. Prerequisites: PTBS-41000. 2 credits. (S,Y)

**PTBS-49000 Clinical Education II**

The second placement for the student in a clinical environment where he or she has the close supervision of a clinical instructor. This experience provides an opportunity to practice and develop skills in analyzing motor performance and evaluating and treating joint and soft tissue pathologies. The student should also exhibit an understanding of the administration of a physical therapy department. Six weeks in length. Prerequisites: PTBS-30100; PTBS-41100; PTBS-45100; PTBS-45200; PTBS-46500; PTBS-46600. Pass/fail only. 3 credits. (S,Y)

**PTBS-49900 PTBS-49999 Independent Study**

This course, which requires a faculty sponsor, allows students to complete an in-depth study or project in an area of their interest related to physical therapy. Includes a final presentation. Prerequisites: Permission of faculty sponsor, academic adviser, department chair, and dean. May be repeated for a total of 6 credits. 1–3 credits. (F-S,Y)

**PTBS-59800 Honors Seminar in Physical Therapy**

For students in the honors program. Research proposals completed in PTBS-59900 are presented and critiqued. In addition, examples of good and poor published journal articles are discussed and analyzed. Prerequisites: PTBS-59900. Note: All undergraduates taking this course for graduate credit must satisfy the conditions listed under “Course Levels,” p. 294. 1 credit. (S,Y)

**PTBS-59900 Honors Project**

For the exceptional student who wishes to pursue graduate research. Results will be summarized in a research proposal, which is a preliminary step toward a graduate thesis. Prerequisites: PTBS-41000; permission of department chair. Note: All undergraduates taking this course for graduate credit must satisfy the conditions listed under “Course Levels,” p. 294. 3 credits. (F-Y)

**PTMS-60100 Pathokinesiology**

Presents specific pathological conditions (primarily organized according to anatomical regions) that result in disorders of posture, movement, and locomotion. The presentations and analyses of these pathokinesiological conditions include neurological, neuromotor, and musculoskeletal aspects with respect to the causes of dysfunction. Laboratory exercises require the student to use movement analysis equipment to demonstrate pathomechanics and abnormal movement patterns. 3 credits. (F,Y)

**PTMS-60300 Cardiac Testing and Management**

A review of normal cardiac physiology and the response of this system to exercise and disease. Cardiac pathologies are discussed, including a review of the medical and surgical management of specific disease groups. Evaluation procedures utilized to determine the status of the cardiac system’s performance are studied and performed in the laboratory. Clinical management procedures used by all members of the rehabilitation team are reviewed with emphasis on specific physical therapy procedures. 2 credits. (S,Y)

**PTMS-60500 Pulmonary Testing and Management**

A review of normal pulmonary physiology and the response of the pulmonary system to exercise and disease. Pulmonary pathologies are discussed, including a review of the medical and surgical management of specific disease groups. Evaluation procedures utilized to determine the status of the pulmonary system’s performance are studied and performed in the laboratory. Clinical management procedures used by all members of the rehabilitation team are reviewed with emphasis on specific physical therapy procedures utilized in treating patients with pulmonary disease. 2 credits. (S,Y)

**PTMS-60600 Orthotics/Prosthetics**

An in-depth review of the principles and practices of orthotics and prosthetics as applied by a physical therapist. This includes a survey of the basic biomechanical principles used in applying orthotic and prosthetic appliances as well as principles of patient application, training, and management of complications. 2 credits. (S,Y)
Speech-Language Pathology and Audiology

PTMS-60700 Research I
Principles and methods of scholarly inquiry. Topics include formulation of research problems, literature review, hypothesis testing, techniques of data collection, and analysis of results. Historical and philosophical methods are introduced, but the course focuses on descriptive and experimental methods. Culminates in a written preliminary research outline. 2 credits. (F,Y)

PTMS-60800 Research II
Application of research theory to interpretation, analysis, and synthesis of scientific literature. Through small group projects, the student is required to perform a literature review and define methodologies including sampling, instrumentation, design analysis of data, and issues concerning reliability and validity. Culminates in a project presentation. Prerequisites: PTMS-60700. 2 credits. (S,Y)

PTMS-61000 Clinical Education III
A student's third placement in a clinical environment, giving the opportunity to apply more advanced theories and treatment procedures to a selected patient caseload with guidance from a clinical instructor. Six weeks in length. Prerequisites: Satisfactory completion of all prior required coursework. Pass/fail only. 3 credits. (F,Y)

PTMS-61100–PTMS-61200 Clinical Education IV–V
Clinical Education IV and V are the student's final placements in a clinical environment. Two six-week sessions. Prerequisites: Satisfactory completion of all prior required coursework. Pass/fail only. 3 credits per course. (Sum,Y)

PTMS-61300 Clinical Science: Orthopedics
Covers pathogenesis, clinical presentation, medical and surgical management, and rehabilitation of orthopedic disorders. 3 credits. (S,Y)

PTMS-61400 Clinical Science: Medicine
Survey of the most common diseases found in the practice of general medicine. Presentations emphasize medical management procedures and include discussion of physical therapy procedures that may be applied to a varied patient population. 2 credits. (F,Y)

PTMS-61500 Clinical Science: Neurology I
Provides foundation for examination, evaluation, and interventions for individuals with movement-related impairments, functional limitations, and disabilities resulting from neurological disease. A systematic clinical decision-making approach is used to integrate findings from a patient's medical history and reports from rehabilitation team members with results of standardized neurological examinations, observations of movement, and analysis of functional tasks. The neurological diagnosis of stroke and its related movement deficits are covered in detail. 3 credits. (F,Y)

PTMS-61600 Clinical Science: Surgery
A survey of the most common forms of general surgery encountered in the practice of physical therapy. Emphasis is placed on general surgical techniques, including indications, expected outcomes, and complications, as well as the pre- and postoperative role of the physical therapist. An in-depth review of decubitus ulcer and burn management is presented. 3 credits. (F,Y)

PTMS-61700 Clinical Science: Neurology II
Examination, evaluation, and physical therapy interventions for individuals with progressive and non-progressive neurological disease resulting from upper and lower motor neuron disorders. A systematic clinical decision-making model is used to integrate findings from a patient's medical history and reports from other rehabilitation team members with results of standardized neurological examinations, observations of movement, and analysis of functional tasks. Prerequisites: PTMS-61500. 4 credits. (S,Y)

PTMS-61800 Clinical Science: Pediatrics
The etiology, pathology, diagnosis, medical, surgical, clinical examination, evaluation, and physical therapy management of pediatric disorders of the neuromuscular system. The physiological basis and therapeutic techniques of neurophysiological approaches to intervention are examined. 3 credits. (F,Y)

PTMS-61900 Geriatrics in Physical Therapy
A study of the special needs of the older adult. The course prepares the student to plan effective physical therapy management of the problems of older individuals through consideration of age-related changes, psychosocial characteristics, and the continuum of services available for this population. Adaptations of evaluation and treatment methods for older persons are also discussed. 1 credit. (S,Y)

PTMS-62100 Clinical Education VI
The final placement for students in a clinical environment. One 12-week session. Prerequisites: Satisfactory completion of all prior coursework. Students must register for this course, or PTMS-61100 and PTMS-61200. Pass/fail only. 6 credits. (Sum,Y)

PTMS-62400 Professional Development III
Prepares students for their terminal clinical experiences. Students create a professional development plan. Strategies for time management, stress management, and appropriate positioning in the clinical setting are presented. Clinical cases allow the students to explore ethical decision making, patient advocacy, and application of professionalism. Prerequisites: PTMS-63600. 1 credit. (F,Y)

PTMS-62500 Wellness and Prevention
The role of physical therapy in wellness and prevention for individuals, groups, and communities. The physiological rationale behind designing comprehensive wellness programs is presented. Topics include the development and implementation of general fitness and prevention programs for a variety of clients including those with chronic disabilities. Prerequisites: PTMS-60300. Corequisites: PTMS-60500. 1 credit. (S,Y)

PTMS-63000–PTMS-63100 Thesis I–II
Independent research that is theoretically sound and relevant to furthering the knowledge base of physical therapy. The courses are geared to prepare students to perform independent research and/or to prepare students for pursuit of a doctoral degree. The courses are conducted over the entire year of graduate study. PTMS-63000 in the fall, PTMS-63100 in the spring) and culminate in a written thesis that must be approved by the department and the graduate office. Prerequisites: Open only to students with a 3.30 undergraduate GPA or higher who successfully pass a faculty review, 2 credits per course.

SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY
E. W. Testut, Associate Professor and Chair
Christine Cecconi, Associate Clinical Professor and Assistant Chair

Students who select speech-language pathology (SLP) as their major typically pursue a career as practicing speech-language pathologists. The Ithaca College undergraduate program in SLP provides the solid clinical and academic foundation essential for achieving that goal. Students who successfully complete the program earn a B.S. degree that leads to graduate study in speech-language pathology, audiology, teaching students with speech and language disabilities (TSSLD), deaf education, or a related specialty.

Professional coursework fundamentally focuses on basic human communication processes, while introducing students to the study of speech-language and hearing disorders and providing capstone experiences in a clinical practicum. This coursework is complemented by carefully selected, yet flexible, liberal arts and teacher education courses. A master's degree is required for the American Speech-Language-Hearing Association (ASHA) certification and clinical competence in SLP (CCC-SLP), New York State Education Department (NYSED) professional teaching certificate in TSSLD, and New York State Office of Professions (NYSOP) license to practice SLP. The department's graduate programs meet the academic and clinical requirements for professional certification and licenses as defined by the ASHA, NYSED, and NYSOP.

Unique features of the Ithaca College degree in SLP are (1) experiential learning through clinical practicum experiences during the junior and senior years, affording students an opportunity for supervised clinical practice at the Sir Alexander Ewing–Ithaca College Speech and Hearing Clinic or an approved off-campus clinic site, and (2) the opportunity to enroll in teacher education coursework that is required for New York State TSSLD certification. After completion of the four-year degree, students may enter a graduate degree program in speech-language pathology, audiology, TSSLD, deaf education, or a similar specialization. A master's degree is required for the license to practice speech-language pathology or audiology in the state of New York. The department's graduate programs meet the academic and clinical requirements for professional certification by the American Speech-Language-Hearing Association.
Special Academic Status Policy, Speech-Language Pathology and Audiology

All required department courses (SLPA-xxxxx), as well as LNSG-23300 Introduction to Linguistics, must be completed with a grade of C- or better. No advanced course may be taken until all prerequisites for it have been completed with a grade of C- or better. In addition, to maintain satisfactory academic standing, a student must

1. maintain a cumulative GPA of 2.00,
2. maintain a GPA of 2.00 in all major courses (SLPA-xxxxx) and LNSG-23300 Introduction to Linguistics, and
3. successfully complete at least 24 credits in any consecutive 12 months.

Academic Warning — A student who fails to meet any of the three requirements for satisfactory standing stated above will be placed on academic warning. When a GPA deficiency exists, the student must subsequently attain grades sufficiently above the 2.00 standard to bring the cumulative GPA up to the required 2.00 or above.

Dismissal — A student who fails to meet the requirements for satisfactory standing for two consecutive semesters will be dismissed from the major and also may be suspended or dismissed from the school and from Ithaca College.

Occasional Study at Another Institution

Students majoring in SLP normally do not receive transfer credit for department courses required for the major (SLPA-xxxxx). Students may request, through their academic adviser, a waiver of this policy. The department considers such requests on a case-by-case basis.

B.S. in Speech-Language Pathology

Requirements for the Major in Speech-Language Pathology — B.S.

Major department requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLPA-11010</td>
<td>Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>SLPA-15000</td>
<td>Introduction to Communication Disorders</td>
<td>3</td>
</tr>
<tr>
<td>SLPA-16000</td>
<td>Acoustics for the Speech and Hearing Sciences</td>
<td>3</td>
</tr>
<tr>
<td>SLPA-21200</td>
<td>Anatomy and Physiology of the Speech and Hearing Mechanisms</td>
<td>3</td>
</tr>
<tr>
<td>SLPA-21600</td>
<td>Normal Language and Literacy Development</td>
<td>3</td>
</tr>
<tr>
<td>SLPA-22000</td>
<td>Articulation and Phonological Development and Disorders</td>
<td>3</td>
</tr>
<tr>
<td>SLPA-23000</td>
<td>Child Language Disorders: Assessment and Intervention</td>
<td>3</td>
</tr>
<tr>
<td>SLPA-24000</td>
<td>Basic Audiology</td>
<td>3</td>
</tr>
<tr>
<td>SLPA-24200</td>
<td>Aural Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>SLPA-35200</td>
<td>Diagnosis and Appraisal</td>
<td>3</td>
</tr>
<tr>
<td>SLPA-37000</td>
<td>Clinical Pracitcum I</td>
<td>3</td>
</tr>
<tr>
<td>SLPA-36000</td>
<td>Brain Science</td>
<td>3</td>
</tr>
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<td>SLPA-36500</td>
<td>Basic Speech Science</td>
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<tr>
<td>SLPA-45400</td>
<td>Speech and Language Disabilities in Educational Settings</td>
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<tr>
<td>SLPA-47200</td>
<td>Clinical Pracitcum II</td>
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</tr>
<tr>
<td>SLPA-47300</td>
<td>Special Practicum III</td>
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Total, major department requirements = 48

Required courses outside major department

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH-14400</td>
<td>Business Statistics</td>
<td>4 or 3</td>
</tr>
<tr>
<td>MATH-15500</td>
<td>Basic Statistical Reasoning</td>
<td>or</td>
</tr>
<tr>
<td>MATH-24300</td>
<td>Statistics</td>
<td></td>
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<tr>
<td>MATH-24400</td>
<td>Statistics with Probability</td>
<td>or</td>
</tr>
<tr>
<td>PSYC-20700</td>
<td>Statistics in Psychology</td>
<td>4</td>
</tr>
<tr>
<td>COMP-11000</td>
<td>Computers and Information Technologies</td>
<td>3 or</td>
</tr>
<tr>
<td>COMP-20100</td>
<td>Technology for the Middle/Secondary School Teacher</td>
<td>2 or 3</td>
</tr>
<tr>
<td>EDUC-21910</td>
<td>Early Field Experience: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>LNSG-23300</td>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>PSYC-18400</td>
<td>Principles of Developmental Psychology</td>
<td>3</td>
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<tr>
<td>PSYC-20400</td>
<td>Educational Psychology</td>
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<tr>
<td>WRTG-10600</td>
<td>Academic Writing</td>
<td>1 or</td>
</tr>
<tr>
<td>WRTG-xxxxx</td>
<td>Advanced writing course determined by placement test</td>
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</tr>
<tr>
<td>TCED-34000</td>
<td>Social and Cultural Foundations of Education</td>
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<tr>
<td>TCED-11000</td>
<td>Child Abuse Seminar</td>
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<tr>
<td>TCED-11100</td>
<td>Drug Abuse Seminar</td>
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Total, required courses outside department = 23–25

Electives in major department — Choose one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>SLPA-24900</td>
<td>Hearing Loss in the Elderly</td>
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</tr>
<tr>
<td>SLPA-35900</td>
<td>Communication Disorders in the Aging Population</td>
<td>3 or</td>
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<tr>
<td>SLPA-45900</td>
<td>Communication Disorders in Culturally Diverse Populations</td>
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Electives outside major

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<tbody>
<tr>
<td>HIST-xxxxx</td>
<td>Social and behavioral sciences</td>
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<tr>
<td>HIST-xxxxx</td>
<td>Humanities (HU)</td>
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<tr>
<td>HIST-xxxxx</td>
<td>History</td>
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<tr>
<td>HIST-xxxxx</td>
<td>Language other than English (modern languages and literatures, sign language, or a demonstrated proficiency)</td>
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<tr>
<td>HIST-xxxxx</td>
<td>Fine and performing arts (FA)</td>
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<tr>
<td>HIST-xxxxx</td>
<td>From any liberal arts area (LA)</td>
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<td>From any area</td>
<td>17–29</td>
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<tr>
<td>Total, electives outside major</td>
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Summary:

- Major department requirements = 46
- Required course outside major department = 23–25
- Restricted electives in major department = 3
- Electives outside major = 36–51
- Total, B.S. in speech-language pathology = 120

Minor in Communication Disorders

Open to students majoring in all disciplines except speech-language pathology. The minor is designed to increase students’ understanding of communication disorders. Students may be “generalists” (selecting courses that provide an overview of communication disorders) or “specialists” (selecting courses that reflect an area of specific interest, such as science, language, or phonology).

Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
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<td>SLPA-11010</td>
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<tr>
<td>SLPA-16000</td>
<td>Acoustics for the Speech and Hearing Sciences</td>
<td>3</td>
</tr>
<tr>
<td>SLPA-21200</td>
<td>Anatomy and Physiology of the Speech and Hearing Mechanisms</td>
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<tr>
<td>SLPA-21600</td>
<td>Normal Language and Literacy Development</td>
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<tr>
<td>SLPA-22000</td>
<td>Articulation and Phonological Development and Disorders</td>
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<td>SLPA-23000</td>
<td>Child Language Disorders: Assessment and Intervention</td>
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<td>Basic Audiology</td>
<td>3</td>
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<td>SLPA-24200</td>
<td>Aural Rehabilitation</td>
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<td>Diagnosis and Appraisal</td>
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</tr>
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<td>Clinical Pracitcum I</td>
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<td>Brain Science</td>
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<td>SLPA-36500</td>
<td>Basic Speech Science</td>
<td>3</td>
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<tr>
<td>SLPA-45400</td>
<td>Speech and Language Disabilities in Educational Settings</td>
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<tr>
<td>SLPA-47200</td>
<td>Clinical Pracitcum II</td>
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<td>Special Practicum III</td>
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<td>Special Practicum IX</td>
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<td>Special Practicum X</td>
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</table>

Total, minor in communication disorders = 18

Guidelines on course sequencing and other requirements are available at the department office, Smiddy Hall 301.

Course Numbering System

- The level-1 and level-2 required courses comprise a core curriculum that emphasizes basic human communication processes and provides introductory information relevant to communication disorders. Students are required to complete courses at this level before attempting the intermediate or advanced ones.
- The level-3 and level-4 courses are intermediate and advanced offerings for majors and minors only.
- The level-5 courses are graduate-level offerings and may be taken by seniors only with approval of the department chairperson and the dean of graduate studies (refer to the Ithaca College graduate catalog for complete graduate course offerings).

Clinical Affiliations

A list of approved sites may be obtained through the Office of Experiential Learning (seal@ithaca.edu).
SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY COURSES

SLPA-10901 Sign Language I
An opportunity to gain familiarity with and a working knowledge of sign language and finger spelling, as well as an understanding of deafness and deaf culture. 3 credits. (F-S,Y)

SLPA-11010 Phonetics
An introduction to the study of speech sounds, including physiological and acoustic aspects. The primary emphasis is placed on sound to symbol transcription, using the International Phonetic Alphabet. Basic speech science is introduced. 3 credits. (F-S,Y)

SLPA-15000 Introduction to Communication Disorders
An introduction to speech, language, and hearing disorders. A variety of disorders in both children and adults is surveyed, including articulation and language disorders, stuttering, learning disability, cleft palate, cerebral palsy, voice disorders, and hearing losses. The study of these disorders includes incidence/prevalence, characteristics, causes, cultural and linguistic variations, and the impact of these disorders on the individual and society. The course is designed for and open to all students. 3 credits. (F-S,Y)

SLPA-16000 Acoustics for the Speech and Hearing Sciences
An introduction to the study of sound with an emphasis on sound as it applies to human communication. Course topics include the nature of sound, simple harmonic motion, sound pressure and intensity, decibels, wave generation and propagation, Fourier analysis, resonance, distortion, and transmission. Credit cannot be given for this course and PHYS-16000. 3 credits. (F-S,Y)

SLPA-20901 Sign Language II
An extension of SLPA-10901 Sign Language I, the course provides an opportunity to expand manual communication skills and develop the ability to communicate effectively and comfortably with deaf people. Students also develop a better understanding of the implications of deafness for daily life. Prerequisites: SLPA-10901. 3 credits. (S,Y)

SLPA-21200 Anatomy and Physiology of the Speech and Hearing Mechanisms
Anatomy and physiology of the speech and hearing mechanisms: respiration, phonation, respiration, articulation, and basic neurological concepts underlying the communication process. Prerequisites: Second-semester freshman status. 3 credits. (F)

SLPA-21600 Normal Language and Literacy Development
Introduces the student to the study of language and literacy development in children. Topics include prelinguistic development, components of language, theoretical models of language acquisition, individual differences, relationships between oral and written language, and cultural and linguistic variations in language development. Prerequisites: LNSG-23300. 3 credits. (F)

SLPA-21900 Language/Literacy Development in Children Age 3 to 21
An introductory course in the development of language and literacy in early childhood through adolescence, including an overview of the acquisition of language in normally developing children, the major theories of language development, an introduction to the development of literacy skills in children, and study of later language learning and reading/writing skills in adolescence. Emphasis is on application of theories and models to school curriculum. This course should be taken before student teaching. Prerequisites: Sophomore standing. 2 credits. (F-S,Y)

SLPA-22000 Articulation and Phonological Development and Disorders
A study of the normal articulation process, its development, and causes and characteristics of delayed and abnormal development; phonological development and the relationship among phonology, and other language areas. Transcription of speech production errors, identification of articulatory and phonological error patterns, and assessment and treatment techniques are emphasized. Prerequisites: SLPA-11010. 3 credits. (S,Y)

SLPA-22900 Second Language Acquisition: Its Nature and Meaning for Educators
A comparison of first- and subsequent-language learning as it affects the school-age population. The sociocultural nature of language and language acquisition is addressed, as well as specific needs in the multicultural classroom. The multifaceted fundamentals surrounding the nonnative speaker and second-language learning are provided to prepare the student to understand the paradigm shifts that have resulted from demographic changes in this country. Prerequisites: Sophomore standing or after EDUC-10100 or SLPA-21900. 2 credits. (F-S,Y)

SLPA-23000 Child Language Disorders: Assessment and Intervention
An introduction to the study of developmental language disorders. The course examines characteristics of language disorders in the areas of syntax, grammatical morphology, semantics, and pragmatics. The course demonstrates how to incorporate established theory into language assessment and intervention practices. Formal and informal assessment procedures are reviewed. Intervention techniques are examined, and specific intervention experiences are designed and executed. Prerequisites: SLPA-21600. 3 credits. (S,Y)

SLPA-23900 Educating Children with Special Needs
Introduces future educators to special populations of children encountered within mainstream classrooms. Students are introduced to the characteristics of various special populations, including those with orthopedic impairments, mental retardation, autism, hearing and vision impairment, traumatic brain injury, ADHD, and learning disabilities. Educational methodologies that can be applied in the classroom are discussed. Federal mandates, legal issues, and family issues are presented. Collaboration with other school personnel is also addressed. This course should be taken prior to student teaching. Open only to teacher education students in the School of Humanities and Sciences. Prerequisites: Sophomore standing. 2 credits. (F-S,Y)

SLPA-24000 Basic Audiology
Study of anatomy and physiology of the hearing mechanism, audiology pathologies, classification of hearing disorders, and the profession of audiology. Additional topics covered include pure-tone and speech audiometry, immittance measures, and material of current interest. Prerequisites: SLPA-16000. 3 credits. (F)

SLPA-24200 Aural Rehabilitation
Overview of the causes and psychosocial impact of hearing loss, and of the most current diagnostic and remediation strategies employed to combat hearing disorders in the aged. Prerequisites: Sophomore standing or above. 3 credits. (S,Y)

SLPA-32000 Stuttering and Voice Disorders
Survey of the important theories and therapies of stuttering used traditionally and presently. Investigation of a wide range of vocal disorders and their etiologies, diagnoses, and treatments. Prerequisites: SLPA-21200. 3 credits. (F)

SLPA-33900 Language and Learning Disabilities
Introduction to the unique problems of the child with language and learning disabilities. Areas covered include behavioral characteristics; deficits in cognitive abilities and oral and written language; relationship between language, reading, and learning disabilities; causes of these disabilities; and social and educational implications. Prerequisites: SLPA-23000. 3 credits. (Sum,IRR)

SLPA-35200 Diagnosis and Appraisal
Develops proficiency in test administration and scoring, primarily in the areas of articulation and child language. Report-writing and techniques of hearing screening and oral examination also are developed. Skills are developed and practiced in laboratory sessions. Prerequisites: SLPA-22000; SLPA-23000. 3 credits. (F-S,Y)

SLPA-35900 Communication Disorders in the Aging Population
Introduces the communication disorders common to older persons. Speech and language disorders, hearing disorders, and the role of allied health professionals are examined. Prerequisites: GERIO-10100; BIOL-20500 or PSYC-36600. 3 credits. (F,S,Y)
SLPA-36000  Brain Science  NS LA
Addresses the amazing human brain and its capabilities. The course presents
the neuroanatomical cortical, subcortical, and brain stem mechanisms that are
functional during human communication, including vocal speech, speech
comprehension, reading, and writing. Both neurological theories and case
studies will show the relationships between different lesion sites in the brain
and the communication breakdowns that they produce. More broadly, the
course will explore how nerve cells within neurological systems work together
to accomplish memory and learning, feelings and emotions, and movement
and perception, which are an integral part of the ability to communicate.
Prerequisites: SLPA-21200. 3 credits. (F, Y)

SLPA-36500  Basic Speech Science  NS LA
Introduces the undergraduate student in speech-language pathology to topics
in speech science. Areas covered include an overview of the acoustics of
sound; the glottal spectrum; acoustics of consonant and vowel production;
and perception, suprasegmentals, and instrumentation. Prerequisites: SLPA-21200.
3 credits (S, Y)

SLPA-37000  Clinical Practicum I  NLA
An intensive clinical observation experience is provided in conjunction with
classroom instruction focusing on designing individualized intervention
programs, writing behavioral objectives, and general case management
strategies. Corequisites: SLPA-35200. 3 credits. (F-S,Y)

SLPA-39990-SP-39999  Selected Topics in Speech-Language Pathology and Audiology  LA/NLA
Topics of current interest to faculty and students. Experimental courses are
offered under this course number and title. These courses may be repeated for
credit for different selected topics. Prerequisites: As appropriate to topics, 1–3
credits. (IRR)

SLPA-42900  Tutorial in Speech-Language Pathology  NLA
Intensive study in speech-language pathology for advanced students. The
student presents a written proposal to an instructor who is chosen by the student
to direct the tutorial. After the instructor agrees to direct the tutorial, copies of
the proposal are forwarded to the student’s adviser and chairperson for final
approval. This procedure must be completed prior to registration. Prerequisites:
Junior standing; permission of adviser and department chair. 1–3 credits. (F-
S, Y)

SLPA-44900  Tutorial in Audiology  NLA
Intensive study in audiology for advanced students. The student presents a
written proposal to an instructor who is chosen by the student to direct the
tutorial. After the instructor agrees to direct the tutorial, copies of the proposal
are forwarded to the student’s adviser and chairperson for final approval.
This procedure must be completed prior to registration. Prerequisites: Junior
standing; permission of adviser and department chair. 1–3 credits. (F-S,Y)

SLPA-45400  Speech and Language Disabilities in Educational Settings  NLA
The organization and management of speech, language, and hearing programs in
a variety of settings, including case finding and selection; scheduling and
development of a therapeutic program; evaluation of techniques, materials, and
programs; and the development of professional relationships. Implications of
applicable federal and state statutes covering service provision also are discussed.
Corequisites: SLPA-47200. 3 credits. (F-S,Y)

SLPA-45900  Communication Disorders in Culturally Diverse Populations  NLA
Cultural pluralism as it relates to communication disorders in the United States;
it’s impact on the professions of speech-language pathology and audiology; and
sociolinguistic issues of dialect, communication style, and attitudes toward
them. Discussion includes cultural factors that may influence the acquisition of
speech and language; incidence and variation of specific speech and language
disorders among diverse populations; assessment and treatment procedures
that accommodate cultural differences; goal selection strategies; selection of
unlisted materials; educational implications; and specific intervention cases.
Prerequisites: SLPA-35200. 3 credits. (S, Y)

SLPA-46000  Seminar: Health Care Teams  NLA
Cross-listed with TRLS-46000. Students may not receive credit for both SLPA-
46000 and TRLS-46000. Prerequisites: Senior standing in HSHP. 3 credits.
(F, Y)

SLPA-47200  Clinical Practicum II  NLA
Clinical experience in speech-language pathology, including actual client
contact. Involves developing and implementing a program of therapy, preparing
lesson plans, and writing progress reports. Classroom instruction is provided
with emphasis on intervention strategies, approaches, and principles.
Prerequisites: SLPA-37000. 4 credits. (F-S,Y)

SLPA-47400  Professional Semester in Education  NLA
One full semester (14 weeks) of supervised student teaching. Prerequisites:
Admission to student teaching. 12 credits. (F-S,Y)

SLPA-47900  Clinical Practicum (Advanced)  NLA
Advanced clinical experience in speech-language pathology, including
individual clinician-client contact. Involves preparation and implementation of
a program of therapy, development of lesson plans, and writing of progress
reports. Responsibilities include the clinical application of the principles and
procedures developed in SLPA-47200. Prerequisites: SLPA-47200. 1 credit.
(F-S,Y)

SPORT MANAGEMENT AND MEDIA

John T. Wolohan, Associate Professor and Chair

To prepare students for careers in sport administration, management, and
communication in diverse capacities and/or graduate study in these fields, the
department offers the following majors.

B.S. in Sport Management

The sport management major prepares students for a wide range of management
positions in the sport industry and/or for graduate study in sport management,
business management, or law. A core curriculum in sport management and
media provides an understanding and appreciation of all aspects of sport — its
historical and cultural development, as well as its sociological, economic, and
political dimensions. A core curriculum in management, with specialty courses
in sport management, provides knowledge and skill in the areas of organization,
finance, law, personnel, and marketing. The application of management
principles to the sport enterprise distinguishes this degree program. Students
are encouraged to select a minor in their area of interest or related to their
career goals. Graduates of this program are well prepared to assume positions in
college, professional and amateur sports offices, event management, marketing
firms, sport agencies, international sports offices, and related fields.

Requirements for the Major in Sport Management — B.S.

General requirements

Computer science
COMP-11000  Computers and Information Technologies (3)
Total, computer science 3

Mathematics
(students may be required to complete other mathematics courses prior to
enrolling in these courses, depending on their math placement exam scores)
MATH-10700  Fundamentals of Applied Calculus (4) or
MATH-10800  Calculus for Decision Making (4) or
MATH-11100  Calculus I (4)
MATH-14400  Business Statistics (4) or
MATH-24400  Statistics with Probability (4)
Total, mathematics 8

Social sciences
ECON-12100  Principles of Macroeconomics 3
ECON-12200  Principles of Microeconomics 3
PSYC-xxxx  Psychology elective (excluding statistics and methods courses) or
SOCI-xxxx  Sociology elective (excluding statistics and methods courses)
Total, social sciences 3

Humanities and fine arts
ENGL-xxxx  English elective or language elective to be selected
from French (FREN), German (GERM), Hebrew (HEBR), Spanish (SPAN), or Italian (ITAL)
Total, humanities and fine arts 3
**B.S. in Sport Media**

The sport media major prepares students for specialized careers in sport media relations, broadcast media, and print journalism. The curriculum consists of three core areas — sport management and media, communications, and liberal arts. The sport management and media core provides comprehensive exposure to all aspects of the sport industry, including its historical, cultural, sociological, economic, philosophical, and political foundations. The communications core emphasizes background in media production, marketing, media relations, and writing for publications and broadcast. Ithaca College is one of a very few institutions in the country to award degrees in this major. Our roots in the liberal arts connect our students to the broader world around them and encourage them to think critically about the forces that shape our lives. Our graduates are well prepared to assume positions in media relations, broadcast and print media, and alternative media in sport organizations at the college, professional, and amateur level.

**Requirements for the Major in Sport Media — B.S.**

**General requirements**

- **Computer science** — A total of 3 credits selected from the following:
  - COMP-xxxx
  - OCLD-2200

- **Mathematics**
  - MATH-10800 or MATH-11100
  - MATH-15500
  - MATH-24400
  - MATH-24300

- **Humanities and fine arts**
  - HIST-xxxx
  - ENGL-xxxx
  - PHIL-xxxx
  - RLST-xxxx

- **Communication skills**
  - SPCM-11000
  - SPCM-11600
  - WRTG-10600
  - WRTG-11100
  - WRTG-xxxx

- **Liberal arts electives**
  - Total, communication skills 9

**Free electives**

- Total, general requirements 47
- Specific requirements 49
- Liberal arts electives (LA) 15
- Total, B.S. in sport management 120
B.S. in Sports Information and Communication

The sports information and communication major prepares students for specialized careers in sport media and public relations. The curriculum consists of two core areas — sport studies and communications. The sport studies core provides a comprehensive exposure to all aspects of sport, including its historical, sociocultural, economic, philosophical, and political foundations. Students also receive a solid grounding in specialized courses, such as advertising, public relations, marketing, sports information, sport promotions, and writing for publication. Its graduates are well prepared to assume positions in college, professional, and amateur sports information and public relations offices, television and radio networks, marketing firms, print publication firms, sports on the Internet, and sport statistics organizations.

Requirements for the Major in Sports Information and Communication — B.S. (no new students admitted)

General requirements

Computer science — A total of 3 credits selected from the following:

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Total, computer science 3

Mathematics

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Total, mathematics 3–4

Logic

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Total, logic 3

Natural sciences

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Total, natural sciences 3

Humanities and fine arts

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<td>ENG-xxxxx</td>
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Total, history elective 3

Communication skills

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Total, communication skills 15

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Total, specific requirement 44

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<td>SPMM-39400</td>
<td>3</td>
</tr>
<tr>
<td>SPMM-39700</td>
<td>3</td>
</tr>
<tr>
<td>SPMM-39900</td>
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</table>

Total, sport management and media 15

A total of 6 credits selected from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TVR-10100</td>
<td>4</td>
</tr>
<tr>
<td>TVR-22000</td>
<td>3</td>
</tr>
<tr>
<td>TVR-24100</td>
<td>3</td>
</tr>
<tr>
<td>SPMM-11000</td>
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<tr>
<td>SPMM-12200</td>
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<tr>
<td>SPMM-29900</td>
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<tr>
<td>SPMM-32500</td>
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</tr>
<tr>
<td>SPMM-33600</td>
<td>3</td>
</tr>
<tr>
<td>SPMM-33900</td>
<td>3</td>
</tr>
<tr>
<td>SPMM-34900</td>
<td>1</td>
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<tr>
<td>SPMM-44000</td>
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<tr>
<td>MKTG-32200</td>
<td>3</td>
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<tr>
<td>MKTG-32500</td>
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Total, specific requirement 44

Free electives 12–13

Summary

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>General requirements</td>
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<tr>
<td>Specific requirements</td>
<td>44</td>
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<tr>
<td>Free electives</td>
<td>12–13</td>
</tr>
</tbody>
</table>

Total, B.S. in sport media 120

*Open to sport media majors in the spring semester

B.S. in Sports Information and Communication

Sports Information and Communication
### Sport Studies

**A total of 9 credits selected from the following:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPMM-20700</td>
<td>History of Sport</td>
</tr>
<tr>
<td>SPMM-29700</td>
<td>Sport: Philosophical Perspectives</td>
</tr>
<tr>
<td>SPMM-30300</td>
<td>Seminar in Legal and Ethical Issues in Sport</td>
</tr>
<tr>
<td>SPMM-32400</td>
<td>Youth Sport in America</td>
</tr>
<tr>
<td>SPMM-39300</td>
<td>Sport, Media, and Society</td>
</tr>
<tr>
<td>SPMM-39600</td>
<td>Sport in Film and Literature</td>
</tr>
<tr>
<td>SPMM-39700</td>
<td>The Olympic Games</td>
</tr>
<tr>
<td>SPMM-40700</td>
<td>Sport in the Civil Rights Movement</td>
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</table>

**Total, sport studies**

15

**Total, general requirements**

69–70

### Specific requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>TVR-10100</td>
<td>Introduction to Media Production</td>
</tr>
<tr>
<td>OCLD-11100</td>
<td>Presentation Support Media</td>
</tr>
<tr>
<td>TVR-22300</td>
<td>Public Relations</td>
</tr>
<tr>
<td>TVR-24100</td>
<td>Advertising</td>
</tr>
<tr>
<td>SPMM-11000</td>
<td>Introduction to Sport Management</td>
</tr>
<tr>
<td>SPMM-31000</td>
<td>Labor Relations in Sport</td>
</tr>
<tr>
<td>SPMM-32500</td>
<td>Sports Information</td>
</tr>
<tr>
<td>SPMM-32600</td>
<td>Sport Promotions</td>
</tr>
<tr>
<td>SPMM-34900</td>
<td>Fieldwork in Sport Management and Media</td>
</tr>
<tr>
<td>SPMM-46600</td>
<td>Internship in Sport Management and Media</td>
</tr>
<tr>
<td>MKTG-31200</td>
<td>Principles of Marketing</td>
</tr>
<tr>
<td>MKTG-32300</td>
<td>Consumer Behavior</td>
</tr>
<tr>
<td>MKTG-37000</td>
<td>Promotion Management</td>
</tr>
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**Total, specific requirements**

34

**Free electives**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td></td>
<td>Total, B.S. in sports information and communication</td>
</tr>
<tr>
<td></td>
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</table>

### Summary

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General requirements</td>
<td>69–70</td>
</tr>
<tr>
<td>Specific requirements</td>
<td>34</td>
</tr>
<tr>
<td>Free electives</td>
<td>16–17</td>
</tr>
</tbody>
</table>

### B.A. in Sport Studies

The sport studies major meets the needs of students who want an in-depth study of sport and its place in modern society. Grounded deeply in the liberal arts, the sport studies curriculum investigates the historical, sociological, psychological, and philosophical dimensions of sport. Students have the opportunity to further their appreciation for the world of sport with advanced study that explores such areas as gender issues, the Olympic Games, and sport film and literature. Sport studies majors are encouraged to explore specific areas of study more deeply by enrolling in those minors that may directly prepare them for graduate study or prospective careers.

### Requirements for the Major in Sport Studies – B.A.

#### General requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer science</td>
<td>A total of 3 credits selected from the following:</td>
</tr>
<tr>
<td>COMP-xxxxx</td>
<td>Computer science elective (3) <strong>or</strong></td>
</tr>
<tr>
<td>EXSS-13900</td>
<td>Computer Applications in Exercise and Sport (3)</td>
</tr>
<tr>
<td><strong>Total, computer science</strong></td>
<td>3</td>
</tr>
</tbody>
</table>

**Mathematics** — A total of 3–4 credits selected from the following (students may be required to complete other mathematics courses prior to enrolling in these courses, depending on their scores on the math placement exam):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH-10500</td>
<td>Mathematics for Decision Making</td>
</tr>
<tr>
<td>MATH-10800</td>
<td>Calculus for Decision Making (4) <strong>or</strong></td>
</tr>
<tr>
<td>MATH-11100</td>
<td>Calculus I (4) <strong>or</strong></td>
</tr>
<tr>
<td>MATH-15500</td>
<td>Basic Statistical Reasoning (3)</td>
</tr>
</tbody>
</table>

**MATH-38500** — A total, mathematics

| Credits | 3–4 |

**Natural sciences**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any natural science electives</td>
<td>6–7</td>
</tr>
<tr>
<td><strong>Total, natural sciences</strong></td>
<td>6–7</td>
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</table>

### Humanities and fine arts

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG-xxxxx</td>
<td>English elective</td>
</tr>
<tr>
<td>HIST-xxxxx</td>
<td>History elective</td>
</tr>
<tr>
<td>AESTH-xxxxx</td>
<td>Aesthetics elective to be selected from art (ART), art history (ARTH), music (MUTH, JAZZ, MUMC, MUNM, MUEN, PFNM), or theater arts (THPA)</td>
</tr>
<tr>
<td>PHIL-xxxxx</td>
<td>Philosophy elective <strong>or</strong></td>
</tr>
<tr>
<td>RLST-xxxxx</td>
<td>Religion elective</td>
</tr>
<tr>
<td>SOCI-xxxxx</td>
<td>Humanities or fine arts elective (HU or FA)</td>
</tr>
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</table>

**Total, humanities and fine arts**

15

### Communication skills

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>SPCM-11000</td>
<td>Business and Professional Communication</td>
</tr>
<tr>
<td>WRTG-10600</td>
<td>Academic Writing <strong>or</strong></td>
</tr>
<tr>
<td>WRTG-11100</td>
<td>Academic Writing II</td>
</tr>
<tr>
<td>WRTG-xxxxx</td>
<td>Writing elective (not WRTG-10100)</td>
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**Total, communication skills**

9

### Social sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC-xxxxx</td>
<td>Psychology elective (excluding statistics and methods courses)</td>
</tr>
<tr>
<td>SOCI-xxxxx</td>
<td>Sociology elective (excluding statistics and methods courses)</td>
</tr>
<tr>
<td>ECON-xxxxx</td>
<td>Economics elective (3) <strong>or</strong></td>
</tr>
<tr>
<td>POLT-xxxxx</td>
<td>Politics elective (3)</td>
</tr>
<tr>
<td>ANTH-xxxxx</td>
<td>Anthropology elective (not ANTH-10200)</td>
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</table>

**Total, social sciences**

15

### Specific requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SPMM-20700</td>
<td>History of Sport</td>
</tr>
<tr>
<td>SPMM-29500</td>
<td>Social Aspects of Sport</td>
</tr>
<tr>
<td>SPMM-29700</td>
<td>Sport: Philosophical Perspectives</td>
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</table>

### A total of 21 credits selected from the following:

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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HIST-27500</td>
<td>History of Popular Culture (3)</td>
</tr>
<tr>
<td>TRLS-10100</td>
<td>Leisure and Society (3)</td>
</tr>
<tr>
<td>TRLS-36600</td>
<td>Social and Cultural Aspects of Play (3)</td>
</tr>
<tr>
<td>EXSS-29600</td>
<td>Seminar in Sport Psychology (3)</td>
</tr>
<tr>
<td>EXSS-39500</td>
<td>Seminar in Sport Psychology (3)</td>
</tr>
<tr>
<td>SPMM-29300</td>
<td>Minicourses in Sport Management and Media (LA)</td>
</tr>
<tr>
<td>SPMM-29800</td>
<td>Gender Issues in Sport</td>
</tr>
<tr>
<td>SPMM-29900</td>
<td>Evolution of the Sport Media (3)</td>
</tr>
<tr>
<td>SPMM-30300</td>
<td>Seminar: Legal and Ethical Issues in Sport (3)</td>
</tr>
<tr>
<td>SPMM-32400</td>
<td>Youth Sport in America (3)</td>
</tr>
<tr>
<td>SPMM-36500</td>
<td>Sport Economics (3)</td>
</tr>
<tr>
<td>SPMM-39400</td>
<td>Sport in Film and Literature (3)</td>
</tr>
<tr>
<td>SPMM-39700</td>
<td>The Olympic Games (3)</td>
</tr>
<tr>
<td>SPMM-40700</td>
<td>Sport in the Civil Rights Movement (3)</td>
</tr>
<tr>
<td>SPMM-45000</td>
<td>Independent Study in Sport Management and Media (3)</td>
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**Total, specific requirements**

30

### Liberal arts electives

<table>
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<th>Requirement</th>
<th>Credits</th>
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<tbody>
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### Free electives

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<td>Free electives</td>
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### Summary

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<tbody>
<tr>
<td>General requirements</td>
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<td>Specific requirements</td>
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<tr>
<td>Liberal arts electives</td>
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<tr>
<td>Free electives</td>
<td>29–32</td>
</tr>
<tr>
<td><strong>Total, B.S. in sport studies</strong></td>
<td>120</td>
</tr>
</tbody>
</table>
Minors

Sport Studies Minor
Open to students majoring in all disciplines except sport management, sport media, and sport studies.

Curriculum

SPMM-20700 History of Sport (3)
SPMM-29500 Social Aspects of Sport (3)
SPMM-29700 Sport: Philosophical Perspectives (3)

A total of 9 credits selected from the following:

EXSS-29400 Sport and Exercise Psychology (3)
EXSS-39600 Seminar in Sport Psychology (3)
SPMM-29300 Minicourses in Sport Management and Media [LA] (1-3)
SPMM-29800 Gender Issues in Sport (3)
SPMM-29900 The Evolution of Sport Media (3)
SPMM-30300 Seminar in Legal and Ethical Issues (3)
SPMM-23400 Youth Sport in America (3)
SPMM-35500 Sport Economics (3)
SPMM39400 Sport in Film and Literature (3)
SPMM-39700 The Olympic Games (3)
SPMM-39900 Selected Topics in Sport Management and Media (LA only) (1-3)
SPMM-40700 Sport in the Civil Rights Movement (3)
SPMM-45000 Independent Study in Sport Management and Media (3)

Total 18

SPORT MANAGEMENT AND MEDIA COURSES

SPMM-11000 Introduction to Sport Management [NLA]
An investigation of the scope of the sport industry, a growing major business enterprise in the United States and in much of the world. Functions of management, skills, and attributes required of a sport manager, and roles of a manager are discussed. Emphasis is on the managerial process in relation to sport organizations and their products. Students become acquainted with career opportunities in the sport management field. 3 credits. (F-S,Y)

SPMM-11200 Contemporary Issues in Sport Management [NLA]
This course is designed to provide students opportunities to examine current issues and trends in the sports industry, research the wide range of career opportunities available in the industry, obtain work experiences in the sports industry, develop career plans in the field of sport management, and expand knowledge of computer software programs that are most frequently used in the sport industry. Prerequisites: SPMM-11000; major in sport management or sport media. 3 credits. (S,Y)

SPMM-20700 History of Sport [HU LA 1h]
Focuses on the role of sport in past and contemporary societies. Consideration of sport as a microcosm of society, a mirror of American life. Political, economic, military, and societal issues of sports participation are carefully examined — how sport has shaped culture and has, in turn, been influenced by it. Prerequisites: Sophomore standing. 3 credits. (F-S,Y)

SPMM-21000 International Sport Administration [NLA]
An analysis of sport in an international context. This course examines the scope of the sports industry internationally and introduces students to the wide range of career opportunities in the field of international sport management. In addition, this course examines the managerial process to include the functions of management, as well as the roles, skills, and attributes required of sports managers. Students will be introduced to problems/issues faced by international sport managers by analyzing and discussing actual case studies in sport management. Prerequisites: Sophomore standing. 3 credits. (IRR)

SPMM-24200 Sport Video Production [NLA]
Students apply their introductory knowledge of preproduction planning, camera work, script writing, editing, and interview techniques to create video packages dealing with local sport events. Students will complete their packages in a collaborative manner through all phases of fieldwork production. The emphasis is on improving the proper fundamentals and techniques needed for shooting sporting events, while creating an interesting audio and visual perspective. Prerequisites: TVR-10100; SPMM-11000; sophomore standing. 3 credits. (Y)

SPMM-28500 Sport Event and Facility Management [NLA]
Develops a student’s understanding of the skills needed to manage and operate sport, physical education, and public assembly facilities. The following topics will be addressed: scheduling the facility; box office management; security and supervision; safety and medical services; housekeeping and maintenance; concessions and merchandising; risk management and insurance; the conceptual and technical aspects related to the developing and operating of sport related events; and the purchase and maintenance of equipment. Prerequisites: Sophomore standing; SPMM-11200. 3 credits. (F-S,Y)

SPMM-29200 Minicourses in Sport Management and Media [LA]
A series of short courses in specialized areas of sport management and media. Visiting lecturers and faculty of the school participate in areas of their expertise. Analyses of actual case studies focusing on sport management and media problems and issues confronted by sport managers help students in further developing their critical thinking and problem solving skills. Students conduct independent research in which they analyze a particular management problem/issue (case study), and develop and write strategies to effectively address the management problem/issue. May be repeated. Additional fee for course materials (see course schedule). Prerequisites: At least one course in sport management and media; refer to Undergraduate Course Offerings each semester. Pass/fail only. 1–3 credits. (IRR)

SPMM-29300 Minicourses in Sport Management and Media [LA]
A series of short courses in specialized areas of sport management and media that meet College guidelines for liberal arts designation. This course will be more theoretical in nature, requiring students to think about sport and its place in history, modern culture, and society. Visiting lecturers and faculty of the school participate in areas of their expertise. May be repeated. Additional course fee may be required for course materials; refer to course schedule. Prerequisites: Vary depending on the topic; refer to Undergraduate Course Offerings each semester. Pass/fail only. 1–3 credits. (IRR)

SPMM-29500 Social Aspects of Sport [SS LA 1]
An investigation of the social significance of sport and the utilization of the sociological perspective for understanding the nature of sport. Prerequisites: Sophomore standing. 3 credits. (F-S,Y)

SPMM-29700 Sport: Philosophical Perspectives [LA]
An introduction to several philosophical perspectives on the meaning of sport as a human activity. An examination of selected philosophical issues or topics as they occur in sport. Prerequisites: Sophomore standing; SPMM-20700 or SPMM-29500. 3 credits. (F-S,Y)

SPMM-29800 Gender Issues in Sport [LA]
A study of the central role of gender in the formulation of understandings and expectations about sport in American culture. An overview of selected psychosocial, historical, and philosophical issues that shape the nature and scope of men’s and women’s participation in sport and physical activity. Particular emphasis is placed on the social construction of gender in sport, specifically the ways sport is used to reinforce a predominantly male value system, and how female and male sport experience are defined and constrained by that system. Prerequisites: Sophomore standing; SPMM-20700 or SPMM-29500. 3 credits. (F-S,Y)

SPMM-29900 The Evolution of Sport Media [LA]
An analysis of the changing landscape of the sport media from the Industrial Revolution of the mid-19th century to its current configuration. Students examine relevant periods and events throughout American history, and investigate the role the sport media played on the political, social, and technological climate of that time. The course will also try to debunk the myth that what goes on in today’s sports media is dramatically different from bygone eras. Prerequisites: One course in the Department of Sport Management and Media: sophomore standing. 3 credits. (S,Y)

SPMM-30300 Seminar in Legal and Ethical Issues in Sport [LA]
Examines a variety of sport situations that help students appreciate the legal and ethical dilemmas facing those who participate in and manage the sport enterprise. Explores and analyzes options for resolving specific legal and ethical dilemmas, increasing students’ knowledge and understanding of the role and influence of those involved in the sport experience. Prerequisites: Junior standing; at least two of the following: PHIL-10100, PHIL-21200, SPMM-29500, SPMM-29700, GBUS-20300. 3 credits. (F-S,Y)

SPMM-31000 Labor Relations in Sport [NLA]
Examination of the development, history, and legal aspects of the labor movement in sport. Discussion of the collective bargaining process in sport and
the impact that court cases, antitrust law, and arbitration decisions have had on professional sports. Analysis of resolutions to specific labor problems through simulated negotiations. Prerequisites: SPMM-11000 or SPMM-20700; junior standing. 3 credits. (F-S,Y)

SPMM-31500 Sport Governance NLA
Basic theories of organization and leadership applied to sport organizations. Included are professional team-sport leagues, intercollegiate athletics, the Olympic movement, and international sport associations. Prerequisites: MGMT-20600. (F or S,Y)

SPMM-32400 Youth Sport in America LA
Investigation of the social and cultural significance of the ways contemporary American society employs sport to foster moral development in children and adolescents. Focus is on historical antecedents of organized sport for children both in and outside the school setting. Significant attention is devoted to Little League baseball and high school football and basketball. Prerequisites: SPMM-20700; SPMM-29500; junior standing. 3 credits. (IRR)

SPMM-32500 Sport Media Relations NLA
Deals with the workings and process behind executing the proper techniques of media relations in all facets of the sport industry. The media relations offices of college/university athletic departments or professional franchises act as liaisons between the school/team and the media. To better understand how both sides work to form this symbiotic relationship, sport organizations will be analyzed in terms of their organization and execution of promotion and marketing strategies. Prerequisites: Junior standing. Corequisites: SPMM-34900. 3 credits (F or S,Y)

SPMM-32600 Sport Marketing NLA
Examination of the concepts and principles of promotion as applied to the unique aspects of sport. Analysis of the relationship between sport promotions and public relations strategies that are employed by the sport manager. Students develop promotional strategies and activities that can be applied in real-life sport organizations to enhance the public relations efforts of the organization. Prerequisites: One SPMM-prefix course; MKTG-31200. 3 credits. (F-S,Y)

SPMM-33900 Sport Publications NLA
Examines the operations and procedures behind the various arms of the print media. Students will learn about newspapers, magazines, and web publications by first analyzing their historical evolution and basic business models. The primary goal is to understand how these media outlets define their target audience, satisfy commercial obligations, and then create relevant and appealing material. Students will analyze the style and tone of the various media outlets by reading different publications and critiquing the presentation along with the substance of the words on the page. After the analytical work is completed, the second half of the semester will be based on students writing copy for newspapers, magazines, and web publications. The final goal is to produce a publication created solely by the students in the class. Prerequisites: Completion of a 6-credit writing requirement; junior standing. 3 credits. (F-S,Y)

SPMM-34900 Fieldwork in Sport Management and Media NLA
Practical experience in amateur and professional sport agencies and community sport organizations. Focus is on observation, guided learning, and supervised practical experiences. Prerequisites: Sport management and sport media major; junior standing or above; permission of department chair. 1–6 credits. (F-S,Y)

SPMM-35200 Financial Aspects of Sport NLA
Basic theory in finance applied to managerial control of sport organizations. Included are forms of ownership, taxation, financial analysis, feasibility studies, and economic impact studies. Prerequisites: SPMM-11000; ECON-12200; ACCT-22500. 3 credits. (Y)

SPMM-36500 Sport Economics SS LA
Application of economic theory to the markets of professional and amateur sports. This course provides economic principles to analyze a wide range of issues within the realm of professional sports and intercollegiate athletics. Included are the analysis of labor markets and labor relations, public finance of sports facilities, and the organization of sport institutions. Prerequisites: SPMM-11000; ECON-12200. 3 credits. (F-S,Y)

SPMM-39000 Sport Internet Marketing NLA
Designed to develop a student's understanding of how to use the Internet to market in sport. This course will include topics as follows: the utilization of the web in sport marketing, the importance of usability analysis in Internet marketing, the development of Internet marketing plans, the interactivity of the Internet, customer relations management on the Internet, media/public relations on the Internet, and evaluating web content. Prerequisites: SPMM-11000; MKTG-31200; COMP-11000 or COMP-xxxxx, or EXSS-13900 and junior standing. 3 credits. (IRR)

SPMM-39400 Sport in Film and Literature LA
Investigation of the sociocultural and mythic dimensions of contemporary sport as represented in selected films and fiction. Prerequisites: Junior standing; SPMM-29700. 3 credits. (S,Y)

SPMM-39700 The Olympic Games LA
Investigation of the historical, cultural, and sociopolitical significance of the Olympic Games, both ancient and modern. These perspectives further a deeper understanding of the nature of sport. Prerequisites: SPMM-20700, SPMM-29500, or SPMM-29700; junior standing. 3 credits. (IRR)

SPMM-39900–SPMM-39999 Selected Topics in Sport Management and Media LA/NLA
Topics of current interest to faculty and students. Experimental courses are offered under this course number and title. This course may be repeated for credit for different selected topics. Prerequisites: As appropriate to topics. 1–3 credits. (IRR)

SPMM-40700 Sport in the Civil Rights Movement LA
Investigation of the role sport and prominent athletes played during the course of the civil rights movement. Specific analyses will include Jesse Owens’s and Joe Louis’s roles in the confrontation with Nazi Germany; Jackie Robinson’s breaking the color barrier in major-league baseball; Muhammad Ali’s defiance of the draft during the Vietnam War; and the Olympic Games boycott movement of 1968; Group projects by students are presented in a public setting at the conclusion of the semester. Prerequisites: SPMM-20700; SPMM-29500; SPMM-29700; one SPMM-3xxxx (LA) course. 3 credits. (IRR)

SPMM-41000 Sport Policy NLA
An examination of policy development in various areas of the sport enterprise. Covers the theory and role of policy development through a review of case studies on current sport issues and problems. In addition, students select for research a sport issue or problem in a particular sport organization or setting. Students are then guided through independent research projects aimed at developing and writing policies to address the real-life issue or problem. Prerequisites: SPMM-11000; SPMM-32600; senior standing; sport management major. 3 credits. (F-S,Y)

SPMM-45000–SPMM-45099 Independent Study in Sport Management and Media LA
Individual study program for the investigation of special issues or topics in the field of sport management and media that have such breadth of cultural material or psychological material, such rigor and depth of theoretical structure, or such play of broad intellectual and aesthetic themes as to be classified liberal arts. Arranged individually between student and faculty sponsor according to guidelines available from the department. Prerequisites: Major or minor in the Department of Sport Management and Media; permission of the department chair. 1–3 credits. (F-S,Y)

SPMM-45100–SPMM-45199 Independent Study in Sport Management and Media NLA
Individual study program for the investigation of special issues or topics in the field of sport management and media that are so professional, practical, or applied in nature that they cannot be classified as liberal arts. Arranged individually between student and faculty sponsor according to guidelines available from the department. Prerequisites: Major or minor in the Department of Sport Management and Media; permission of the department chair. 1–3 credits. (F-S,Y)

SPMM-46000 Internship in Sport Management and Media NLA
Supervised work experience in amateur or professional sport agencies and community sport organizations. Student assumes a leadership role in various job-related activities and performs administrative tasks in support of such activities under an experienced agency supervisor and faculty sponsor. Prerequisites: SPMM-34900; permission of department chair. 6–12 credits. (F-S,Y)

THERAPEUTIC RECREATION AND LEISURE SERVICES

Linda A. Heyne, Associate Professor and Chair

The Department of Therapeutic Recreation and Leisure Services offers three majors — outdoor adventure leadership, recreation management, and therapeutic recreation. These majors allow students to specialize in recreation program areas and settings of particular interest and lead to a broad range of careers in the recreation, park, and leisure professions. The program...
is accredited by the Council on Accreditation sponsored by the National Recreation and Park Association (NRPA) and the American Association for Leisure and Recreation (AALR). Two minors are also available — one in recreation and one in outdoor recreation.

**B.S. in Outdoor Adventure Leadership**

Careers in outdoor recreation are an exciting, varied, and unique aspect of the leisure profession. The outdoor adventure leadership major is designed for the individual who is enthusiastic about outdoor activities such as backpacking, kayaking, snowshoeing, cross-country skiing, and wilderness travel, and who would like to work in the outdoors in a leadership position. The outdoor adventure leadership curriculum builds outdoor recreation knowledge and skills, as well as develops leadership skills to teach outdoor skills to others and safely oversee outdoor recreation programs. Career opportunities exist in outdoor leadership, outdoor education, team building, camp management, natural resource management, environmental interpretation, programs that serve youth at risk, and the adventure travel industry.

The outdoor adventure leadership program is affiliated with the Wilderness Education Association (WEA). WEAs 18-point curriculum, which emphasizes sound judgment and decision making in the context of acquiring professional knowledge and outdoor skills, is infused within the outdoor adventure leadership curriculum. Graduates of the program are eligible to apply for WEA National Standards Program for Outdoor Leadership certification, which is recognized across the country for enhancing safety standards of adventure travel and for wilderness conservation.

**Special Academic Status Policy for Outdoor Adventure Leadership Majors**

1. A student in this major must receive a semester grade of at least C- in all required TRLS- prefix courses.
2. A student who fails to complete a required TRLS- prefix course with a grade of at least C- must repeat the course. The Ithaca College policies on repeating courses stated on p. 206 must be followed.
3. A student who receives less than a C- after repeating a required TRLS- prefix course will be subject to dismissal from the program. A student dismissed from the program may be eligible to enter other Ithaca College degree programs.
4. A student dismissed from a professional practicum is subject to receiving a failing grade and, in that case, must complete a prescribed program of remediation prior to a second placement. The student must register again for the practicum. A student dismissed from a professional practicum a second time is subject to dismissal from the program.
5. In exceptional cases, a student may be readmitted to the program upon satisfying conditions determined by the faculty.

At least 60 credits of liberal arts are required to graduate with a B.S. degree. All candidates for the B.S. degree in outdoor adventure leadership must complete a minimum of 120 credits in the components described below.

**Requirements for the Major in Outdoor Adventure Leadership — B.S.**

**General requirements**

- **Liberal arts requirements**
  - BIOL-xxxx: Biology elective or 3-4
  - EXSS-12000: Anatomy and Physiology I (4) 3
  - HIST-27000: History of American Environmental Thought 3
  - MATH-xxxx: Mathematics elective 3-4
  - SPCM-xxxx: Speech communication elective (SPCM-11000, SPCM-11500, SPCM-14000, or SPCM-14900) 3
  - PSYC-10400: Introduction to Developmental Psychology or 3
  - PSYC-20400: Principles of Developmental Psychology 3
  - SSCI-xxxx: Sociology elective 3
  - WRTG-10600: Academic Writing I or 3
  - WRTG-11100: Academic Writing II 3
  - WRTG-xxxx: Applied writing elective (not WRTG-10100) 3

**Cultural diversity elective — Select one of the following:**

- POLT-12900: Introduction to Global Studies (3)
- POLT-14100: Power: Race, Sex, and Class (3)
- SPCM-34700: Intercultural Communication (3)
- SOCI-11600: Introduction to Multicultural Studies (3)

**Fine arts elective**

- Fine arts course 3

**Professional core**

- TRLS-10300: History and Philosophy of Leisure 3
- TRLS-10500: Leadership 3
- TRLS-12500: Understanding Disability: Characteristics, Causes, Services 3
- TRLS-13900: Computer Applications in Recreation 3
- TRLS-23200: Program Planning 3
- TRLS-23500: Design and Operation of Areas and Facilities 3
- TRLS-33000: Administration and Supervision 3
- TRLS-33200: Research Methods 3
- TRLS-34000: Inclusive Community Leisure Services 3
- TRLS-45300: Seminar: Professional Development 3
- HLTH-12200: Emergency Health Care 3

**Outdoor adventure leadership core**

- TRLS-15100: Foundations of Outdoor Adventure Pursuits 3
- TRLS-21400: Outdoor Adventure Skills 3
- TRLS-27700: Ecotourism and Natural Resource Management or 3
- TRLS-35200: Outdoor Education 3
- TRLS-35400: Leadership and Administration of Outdoor Pursuits 3
- TRLS-42100: Wilderness Expedition Leadership 3

**Professional practicum**

A minimum of credits must be earned in either TRLS-34900 or TRLS-44100, both of which can be taken for variable credit. The total number of practicum credits earned for the degree may not exceed 15, including those earned in fieldwork courses outside the major. Practicum credits beyond the 12 required may be counted as free electives. Additionally, students must document a minimum of 750 hours of out-of-class trip leading (e.g., campus clubs, personal trips) as a requirement for graduation from the major. Students will discuss the parameters of this requirement with their adviser upon entry into the major.

Internships must be approved by the department chair. To be eligible for an internship (TRLSS-44100), an outdoor adventure leadership major must meet the following prerequisites:

- GPA of at least 2.50 in Department of Therapeutic Recreation and Leisure Services courses
- minimum average of 3.00 in TRLS-24800 and TRLS-34900, Fieldwork I and II
- cumulative GPA of at least 2.00 and at least 24 credits earned in the last 12 months
- completion of at least 24 credits of required recreation (TRLSS-xxxxx) courses and at least 6 credits of recreation electives (TRLSS-xxxxx)

- TRLS-24800: Fieldwork I 3
- TRLS-34800: Fieldwork II 3
- TRLS-34900: Advanced Fieldwork or 3
- TRLS-44100: Internship in Recreation and Leisure Studies 6-9
### B.S. in Recreation Management

Leisure professionals are people who value leisure as a meaningful pursuit across the life span and who work with others to promote personal growth, fitness, wellness, creativity, healthy leisure choices, and overall quality of life through recreation. Recreation management majors gain knowledge and skills in leadership, recreation program planning, group dynamics, facilitation techniques, cultural competence, research methods, supervision, and administration through a variety of in-class and experiential learning activities. Students may specialize in recreation service delivery areas, such as public parks and recreation, youth services, leadership development, commercial recreation, tourism, or hospitality. Students may also choose to combine the major with a minor in, for example, psychology, business, health, or nutrition promotion.

Careers in recreation management are growing, and opportunities exist in a variety of settings. Leisure professionals are employed in parks and recreation departments, nonprofit agencies, fitness centers, youth-serving agencies, and camps. Graduates may also pursue careers in recreation business enterprises, travel and tourism, hospitality, resorts, theme parks, convention centers, events planning, and visitor bureaus. Graduates of the recreation management program are eligible to apply for certification as a certified park and recreation professional through the National Recreation and Park Association.

#### Special Academic Status Policy for Recreation Management Majors

1. A student in this major must receive a semester grade of at least C- in all required TRLS- prefix courses.
2. A student who fails to complete a required TRLS- prefix course with a grade of at least C- must repeat the course. The Ithaca College policies on repeating courses stated on p. 296 must be followed.
3. A student who receives less than a C- after repeating a required TRLS- prefix course will be subject to dismissal from the program. A student dismissed from the program may be eligible to enter other Ithaca College degree programs.
4. A student who fails to complete a professional practicum is subject to receiving a failing grade and, in that case, must complete a prescribed program of remediation prior to a second placement. The student must register again for the practicum. A student dismissed from a professional practicum a second time is subject to dismissal from the program.
5. In exceptional cases, a student may be readmitted to the program upon satisfying conditions determined by the faculty.

At least 60 credits of liberal arts are required to graduate with a B.S. degree. All candidates for the B.S. degree in recreation management must complete a minimum of 120 credits in the components described below.

#### Requirements for the Major in Recreation Management—B.S.

<table>
<thead>
<tr>
<th>Liberal arts requirements</th>
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<tbody>
<tr>
<td>BIOL-xxxxx</td>
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</tr>
<tr>
<td>EXSS-12000</td>
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<tr>
<td>PSYC-20400</td>
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<table>
<thead>
<tr>
<th>Professional core</th>
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<tbody>
<tr>
<td>TRLS-10300</td>
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<td>TRLS-45300</td>
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<tr>
<td>HLTH-12200</td>
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<td>TRLS-15100</td>
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<td>TRLS-21500</td>
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<td>TRLS-34000</td>
<td>3</td>
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| Cultural diversity elective—Select one of the following: |
|--------------------------|-------|
| TRLS-12500 | 3 |
| TRLS-13900 | 3 |
| TRLS-23200 | 3 |
| TRLS-23500 | 3 |
| TRLS-33000 | 3 |
| TRLS-33200 | 3 |
| TRLS-34000 | 3 |
| TRLS-45300 | 3 |
| HLTH-12200 | 3 |
| TRLS-15100 | 3 |
| TRLS-21500 | 3 |
| TRLS-23800 | 3 |
| TRLS-27700 | 3 |
| TRLS-33400 | 3 |
| TRLS-36600 | 3 |
| TRLS-45000 | 3 |
| TRLS-34000 | 3 |

#### Fine arts elective

<table>
<thead>
<tr>
<th>Fine arts elective</th>
<th>Total, general requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>WRTG-10400</td>
<td>3</td>
</tr>
<tr>
<td>WRTG-11100</td>
<td>3</td>
</tr>
<tr>
<td>PSYC-xxxxx</td>
<td>3</td>
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</tbody>
</table>

#### Professional practicum

A minimum of 12 credits is required. Three credits must have a liberal arts (LA) designation. The courses listed below meet the LA requirement. The remaining 12 credits may be selected from any TRLS- prefix courses.
• cumulative GPA of at least 2.00 and at least 24 credits earned in the last 12 months
• completion of at least 24 credits of required recreation courses (TRLS-xxxx) and at least 6 credits of recreation electives (TRLS-xxxx)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>TRLS-24800</td>
<td>Fieldwork I</td>
<td>3</td>
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<tr>
<td>TRLS-34800</td>
<td>Fieldwork II</td>
<td>3</td>
</tr>
<tr>
<td>TRLS-34900</td>
<td>Advanced Fieldwork or</td>
<td></td>
</tr>
<tr>
<td>TRLS-44100</td>
<td>Internship in Recreation and Leisure Studies</td>
<td>6-9</td>
</tr>
</tbody>
</table>

Total, professional practicum 12-15

**Liberal Arts Electives**

**Free Electives**

**Summary**

**B.S. in Therapeutic Recreation**

Therapeutic recreation offers career opportunities for those who are interested in working with individuals with disabilities and other health conditions by using recreation as an intervention to promote independence, functioning, and quality of life. Therapeutic recreation specialists assess physical, social, emotional, behavioral, and cognitive functioning to determine the individual’s needs, interests, abilities, and goals. With this information, they develop individualized treatment plans and intervention strategies to address functional limitations and support the individual’s goals toward health and wellness. Therapeutic recreation specialists utilize a wide variety of recreational activities to rehabilitate, maintain, or enhance their clients’ functional abilities. These activities include arts, crafts, music, dance, drama, horticulture, adventure programs, interaction with pets, sports, games, and community-based outings. These activities help individuals build self-esteem, interact effectively with others, develop physical and cognitive abilities, and learn new skills.

Career placements in therapeutic recreation are on the rise, and opportunities are best for individuals with a bachelor’s degree. Therapeutic recreation specialists work in a variety of settings. In clinical settings, such as hospitals and rehabilitation centers, they treat or rehabilitate individuals with specific medical problems in cooperation with an interdisciplinary team of physicians, social workers, occupational therapists, and physical therapists, among others. In nursing homes and residential facilities, therapeutic recreation specialists utilize activities to enhance general health and quality of life. In the community, therapeutic recreation specialists work with recreation department agencies, special education programs, correctional facilities, youth-at-risk agencies, and programs for older adults. In these settings, therapeutic recreation specialists develop interventions that promote self-efficacy, community inclusion, fitness, healthy leisure behaviors, and overall quality of life.

Graduates of the therapeutic recreation program are eligible to apply for certification through the National Council for Therapeutic Recreation Certification. All of the graduates from the therapeutic recreation program have passed the certification exam.

**Special Academic Status Policy for Therapeutic Recreation Majors**

1. A student in the therapeutic recreation major must receive a semester grade of at least C- in all required TRLS- prefix courses.
2. A student who fails to complete a required TRLS- prefix course with at least a C- grade must repeat the course. The Ithaca College policies on repeating courses stated on p. 206 must be followed.
3. A student who receives less than a C- after repeating a required TRLS-prefix course will be subject to dismissal from the program. A student dismissed from the program may be eligible to enter other Ithaca College degree programs.

4. A student dismissed from a professional practicum is subject to receiving a failing grade and, in that case, must complete a prescribed program of remediation prior to a second placement. The student must register again for the practicum. A student dismissed from a professional practicum a second time is subject to dismissal from the program.

5. In an exceptional case, a student may be readmitted to this program upon satisfying conditions determined by the faculty.

**Requirements for the Major in Therapeutic Recreation — B.S.**

At least 60 credits of liberal arts courses are required to graduate with a B.S. degree. All candidates for the B.S. degree in therapeutic recreation must complete a minimum of 120 credits in the various components described below.

**General requirements**

**Liberal arts requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>HIST-xxxxx</td>
<td>History elective</td>
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<td>MATH-xxxxx</td>
<td>Math elective</td>
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<tr>
<td>PHIL-23000</td>
<td>Bioethics</td>
<td>3</td>
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<tr>
<td>SPCM-xxxxx</td>
<td>Speech communication (SPCM-11000, SPCM-11500, SPCM-14000, or SPCM-14900)</td>
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<tr>
<td>PSYC-10400</td>
<td>Introduction to Developmental Psychology or</td>
<td></td>
</tr>
<tr>
<td>PSYC-20400</td>
<td>Principles of Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC-31200</td>
<td>Abnormal Psychology</td>
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</tr>
<tr>
<td>SOC-xxxxx</td>
<td>Sociology elective</td>
<td>3</td>
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<td>WRTG-10600</td>
<td>Academic Writing I or</td>
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<tr>
<td>WRTG-11100</td>
<td>Academic Writing II [by placement]</td>
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<td>WRTG-xxxxx</td>
<td>Writing elective (not WRTG-10100)</td>
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Total, liberal arts 27-28

**Cultural diversity elective — A minimum of 3 credits selected from the following:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>POLT-12900</td>
<td>Introduction to Global Studies (3)</td>
<td>3</td>
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<td>POLT-14100</td>
<td>Power: Race, Sex, and Class (3)</td>
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<td>SPCM-34700</td>
<td>Intercultural Communication (3)</td>
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<td>SOCI-11600</td>
<td>Introduction to Multicultural Studies (3)</td>
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<tr>
<td>SOCI-13000</td>
<td>Youth and Youth Cultures (3)</td>
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<tr>
<td>SOCI-20700</td>
<td>Race and Ethnicity (3)</td>
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<td>SOCI-22400</td>
<td>Sociology of Hispanic Americans (3)</td>
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<td>SOCI-33000</td>
<td>Global Race and Ethnicity (3)</td>
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<td>SOCI-32500</td>
<td>Race, Class, and Gender (3)</td>
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<td>ANTH-10400</td>
<td>Cultural Anthropology (3)</td>
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<td>ANTH-12900</td>
<td>Introduction to Global Studies (3)</td>
<td>3</td>
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<tr>
<td>HPS-11000</td>
<td>War, Hunger, and Genocide (3)</td>
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<tr>
<td>HPS-12900</td>
<td>Introduction to Global Studies (3)</td>
<td>3</td>
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<tr>
<td>HPS-25000</td>
<td>International Health Issues (3)</td>
<td>3</td>
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<tr>
<td>HINT-31200</td>
<td>Health Care and Culture (3)</td>
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<td>HINT-31300</td>
<td>Health Care and Culture: International Field Experience (1)</td>
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Total, general requirements 30-31

**Required health science courses**

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<th>Code</th>
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<tr>
<td>HPS-10200</td>
<td>Medical Terminology</td>
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<tr>
<td>HPS-20500</td>
<td>Critical Health Issues</td>
<td>3</td>
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<td>HLTH-12200</td>
<td>Emergency Health Care</td>
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<tr>
<td>EKSS-12000</td>
<td>Anatomy and Physiology II</td>
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Total, required health science courses 15

**General recreation courses**

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<tr>
<td>TRLS-10300</td>
<td>History and Philosophy of Leisure</td>
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<td>TRLS-10500</td>
<td>Leadership</td>
<td>3</td>
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<tr>
<td>TRLS-12500</td>
<td>Understanding Disability: Characteristics, Causes, Services</td>
<td>3</td>
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<tr>
<td>TRLS-13900</td>
<td>Computer Applications in Recreation</td>
<td>3</td>
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<tr>
<td>TRLS-23200</td>
<td>Program Planning</td>
<td>3</td>
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<tr>
<td>TRLS-23500</td>
<td>Design and Operation of Areas and Facilities</td>
<td>3</td>
</tr>
<tr>
<td>TRLS-33000</td>
<td>Administration and Supervision</td>
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<tr>
<td>TRLS-33200</td>
<td>Research Methods</td>
<td>3</td>
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<tr>
<td>TRLS-xxxxx</td>
<td>Recreation elective (any recreation course not required in the major)</td>
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Total, general recreation courses 27
Therapeutic recreation professional core courses

- TRLS-23300 Introduction to Therapeutic Recreation (3)
- TRLS-24300 Interventions and Protocols in Therapeutic Recreation (3)
- TRLS-33400 Leisure Education (3)
- TRLS-34000 Inclusive Community Leisure Services (3)
- TRLS-35000 Therapeutic Recreation Process I (3)
- TRLS-35300 Clinical Applications in Therapeutic Recreation (1)
- TRLS-36000 Therapeutic Recreation Process II (3)
- TRLS-43300 Administration of Therapeutic Recreation (3)
- TRLS-45300 Seminar: Professional Development (3)

Total, therapeutic recreation professional core courses 25

Professional practicum

A minimum of 6 credits must be earned in either TRLS-34900 or TRLS-44100, both of which can be taken for variable credit. The total number of practicum credits earned for the degree may not exceed 15, including those credits earned in fieldwork courses outside the major. Practicum credits beyond the 12 required credits may be counted as free electives. Students must complete a minimum of 480 hours over a period of no less than 12 consecutive weeks. No less than 20 hours can be completed in any week.

Internships must be approved by the department chair. To be eligible for an internship (TRLs-44100), a therapeutic recreation major must meet the following prerequisites:

- GPA of at least 2.50 in Department of Therapeutic Recreation and Leisure Services (TRLS-xxxx) courses
- minimum average of 3.00 in TRLS-24800 Fieldwork I and TRLS-34900 Fieldwork II
- cumulative GPA of at least 2.00 and at least 24 credits earned in the last 12 months
- completion of a majority of the therapeutic recreation professional core courses

TRLs-24800 Fieldwork I 3
TRLs-34800 Fieldwork II 3
TRLs-34900 Advanced Fieldwork or TRLS-44100 Internship in Recreation and Leisure Studies 6-9
TOTA1, professional practicum 12-15

Liberal arts electives

Total 3-7
Free electives 2-4

Summary

General requirements 30-31
Required health science courses 15
General recreation courses 27
Therapeutic recreation professional core courses 25
Professional practicum 12-15
Liberal arts electives 3-7
Free electives 2-4
Total, B.S. in therapeutic recreation 120

Minors

Recreation Minor

Open to students majoring in all disciplines except recreation management, outdoor adventure leadership, and therapeutic recreation.

The academic minor in recreation is designed to increase the student's awareness of the importance and extent of leisure and recreation in modern society and to prepare the student to plan, organize, and lead a recreation program of limited scope in a variety of settings.

In addition to the minimum credit requirements for this minor, students must either provide documented evidence that they have had at least 200 hours of work or volunteer experience in the areas of recreation programming or leadership with a leisure service agency, or complete the course TRLS-24800 Fieldwork I. Experience from other course requirements or before admission to the minor program will not satisfy the experiential requirement.

Recreation Courses

Introduction to the dimensions of leisure and recreation services in modern society. Potential of recreation as related to human needs and development. For freshman/sophomore non-recreation majors only. Students may not receive credit for both this course and TRLS-10300. 3 credits. (F-S, Y)

TRLs-10300 History and Philosophy of Leisure 3
TRLs-10500 Leadership 3
TRLs-23200 Program Planning 3
HLTH-12200 Emergency Health Care 1
TRLs-xxxx Recreation electives 6
Total, recreation minor 25

Outdoor Recreation Minor

Open to students majoring in all disciplines except outdoor adventure leadership, recreation management, and therapeutic recreation.

Outdoor recreation is being utilized in many settings. Businesses support “high adventure” programs for their executives. Social service agencies offer camping and outdoor adventure programs for clients. Schools use outdoor education and camping programs as part of their curriculums. This academic minor prepares students to plan, organize, and lead outdoor recreation programs of limited scope.

Requirements

TRLs-10500 Foundations of Outdoor Adventure Pursuits 3
TRLs-21400 Outdoor Adventure Skills 3
HLTH-12200 Emergency Health Care 1

Recreation electives — A minimum of 6 credits selected from the following:

- TRLs-21600 Outdoor Adventure Skills (3)
- TRLs-25000 Experimental or new course related to outdoor recreation (1-3)
- TRLs-25100 Wilderness Expedition Leadership (3)
- TRLs-25500 Outdoor Adventures for People with Differing Abilities (3)
- TRLs-35400 Leadership and Administration of Outdoor Pursuits (3)
- TRLs-35500 Outdoor Education (3)
- TRLs-35600 Leadership and Administration of Outdoor Pursuits (3)
- TRLs-42100 Wilderness Expedition Leadership (3)
- TRLs-xxxx Experimental or new course related to outdoor recreation (1-3)

Total, outdoor recreation minor 25

In addition to the minimum credit-hour requirements to complete the minor, students must provide documented evidence verifying that they have had at least 200 hours of work or volunteer experience in outdoor recreation leadership or programming, or complete the course TRLs-24800 Fieldwork I. Experience obtained as a result of other course requirements or prior to admission to the minor program will not satisfy the experiential requirement.

A maximum of 6 credits will be accepted in transfer for this minor. These credits may be obtained from the National Outdoor Leadership School (NOLS), Outward Bound, or other experiential programs giving academic credit. In most cases, these credits will be substituted for TRLs-21600 Outdoor Adventure Skills or TRLs-42100 Wilderness Expedition Leadership.

RECREATION COURSES

All persons who participate in any activity course must have a health clearance on file in the Ithaca College health center.

TRLs-10100 Leisure and Society SS LA 1
Introduction to the dimensions of leisure and recreation services in modern society. Potential of recreation as related to human needs and development. For freshman/sophomore non-recreation majors only. Students may not receive credit for both this course and TRLs-10300. 3 credits. (F-S, Y)

TRLs-10300 History and Philosophy of Leisure LA 1
Historical and theoretical foundations, nature, and significance of recreation and leisure in contemporary society; current trends and prospects for the future. Survey of agencies, organizations, and programs in the leisure service field and the recreation profession. 3 credits. (F-S, Y)

TRLs-10400 Cooperative Games Facilitation NLA
Basic concepts of cooperative games — philosophy, leadership, curriculum development, and evaluation. The course includes leadership and referee techniques, safety considerations, group dynamics, and game philosophies. A variety of game strategies are presented. Other new and innovative approaches to games are also presented. 1 credit. (F-S, Y)
TRLS-10500 Leadership NLA
Basic concepts in leadership. Common roles of leaders in recreation settings. Analysis of effective leadership practices and their application to organized group activities. Preference is given to freshmen and sophomores. 3 credits. (F-S,Y)

TRLS-12500 Understanding Disability: Characteristics, Causes, Services LA 1
Introduction to the wide spectrum of disabilities — including cognitive disability, mental illness, physical disability, and sensory impairment — within home, school, community, and therapeutic settings. Course focuses on abilities, rights, characteristics, and needs of people with diverse abilities. Issues are discussed in light of societal, cultural, and historical barriers. Self-advocacy, family perspectives, technological developments, and current trends in educational and rehabilitative services are also considered. Includes an experiential swim program with children of varying abilities during class time. Preference is given to freshmen and sophomores. 3 credits. (F-S,Y)

TRLS-13700 Leisure Travel NLA
Develops an understanding of tourism and its social, economic, and environmental impact as one of the world's largest and fastest growing industries. Examines travel motivation, travel trends including ecotourism, and the distinctive conditions that attract visitors to different regions of the world. Enables students to discover interesting places to visit and prepares them to deal with logistical concerns related to climate, monetary exchanges, customs, time changes, health, and safety. The role of intermediaries to facilitate travel arrangements and provide information is also examined. 3 credits. (F-Y)

TRLS-13900 Computer Applications in Recreation NLA
Introduction to microcomputers and their applications to therapeutic recreation and leisure services. Provides a brief survey of hardware and a more detailed examination of contemporary applications such as word processing, spreadsheets, and database management, as well as recreation-specific programs. Students get hands-on experience practicing with various applications and software packages. A student may receive credit for only one of the following: COMP-11000, PHED-13900, TRLS-13900, HLTH-13900, EXSS-13900. Prerequisites: Recreation major or minor. 3 credits. (F-S-Y)

TRLS-15000 Rock Climbing NLA
An introduction to the fundamentals of rock climbing, including safety considerations. Skills taught include the care and use of equipment, knot tying, belaying, rappelling, and a variety of movements on rock. Pass/fail only. 1 credit. (F-S,Y)

TRLS-15100 Foundations of Outdoor Adventure Pursuits LA 1
An overview of the phenomenon of outdoor adventure pursuits. Topics include risk taking, motivations, resource areas, policies, and environmental impacts. 3 credits. (F-S,Y)

TRLS-21500 Youth at Risk LA 1
Students explore, through theoretical and experiential learning, the factors that contribute to or influence the leisure, educational, and social problems of youth at risk. Included among these factors are abuse, neglect, homelessness, recent immigration, minority group membership, having single and/or addicted parents, and various kinds of family dysfunctions. An overview of developmental, social, and psychological perspectives is presented along with innovative programs for youth at risk. Includes weekend workshop (minimal fee). Prerequisites: Sophomore standing or above. 3 credits. (F-Y)

TRLS-21600 Outdoor Adventure Skills NLA
Introduction to basic skills and concepts in a variety of outdoor adventure pursuits taught in the context of the Wilderness Education Association (WEA) 16-point curriculum. Skills include trip preparation, menu planning, cooking techniques, and safety considerations in both moderate- and cold-weather camping. Fundamentals in backcountry travel include day hiking, backpacking, flat-water canoeing, cross-country skiing, and snowshoeing. Stress is placed on environmental concerns and minimizing human impact. Includes several mandatory field experiences, with fees for food. Students who take TRLS-21600, TRLS-35400, and TRLS-32100 in sequence will be eligible to apply for WEA certification. Prerequisites: Sophomore standing or above. 3 credits. (F-S,Y)

TRLS-23200 Program Planning NLA
Takes students through the process of programming, including the setting and evaluation of goals and objectives. Provides opportunities to experience the implementation of ideas in the community. This course also incorporates activity analysis, leisure education, program safety and risk management, and public relations. Prerequisites: TRLS-10100 or TRLS-10300; TRLS-10500. Corequisites: TRLS-24000. 3 credits. (F-S,Y)

TRLS-23300 Introduction to Therapeutic Recreation NLA
An in-depth study of the scope of therapeutic recreation. Students study the historical and philosophical foundations of the profession. The role of therapeutic recreation professionals in the spectrum of health care settings serving clients with a variety of disabilities is explored. Students participate in field visits and interact with professionals in the field throughout the course. Prerequisites: TRLS-12500. 3 credits. (S,Y)

TRLS-23500 Design and Operation of Areas and Facilities NLA
Elements and principles of the design of outdoor recreation areas, with emphasis on playground, neighborhood, community, and large urban parks. Design features and operational practices of selected special facilities are also examined. Prerequisites: TRLS-10100 or TRLS-10300. 3 credits. (F-Y)

TRLS-23800 Leisure and Aging LA
Explores the role of leisure in the aging process. Students analyze the effects of incorporating meaningful leisure activities into the lifestyles of older individuals, based on their needs and interests. Visits to facilities and interaction with older individuals in leisure settings demonstrate the importance of leisure to a healthy lifestyle for older individuals. Prerequisites: TRLS-10100, TRLS-10300, or GERO-10100. 3 credits. (IRR)

TRLS-24300 Interventions and Protocols in Therapeutic Recreation NLA
Explores ways in which arts and related recreation activities can aid in the rehabilitation process of individuals with disabling conditions, develop individual creativity, and enhance the quality of life. Programming areas include art, music, dance, drama, writing, literary readings, movement, reminiscence, horticulture, pet therapy, and biofeedback. Prerequisites: TRLS-12500. 3 credits. (F-Y)

TRLS-24800 Fieldwork I NLA
An experiential education opportunity that applies program planning theories and skills to real-life situations. The student works in a leisure service agency and is actively involved in some aspect of program planning and direct leadership. This course combines classroom and agency experience. Prerequisites: TRLS-10100 or TRLS-10300; TRLS-10500; major or minor status in department or aging studies major. Corequisites: TRLS-23200. 3 credits. (F-S-Y)

TRLS-25500 Outdoor Adventures for People with Differing Abilities NLA
Principles and practices of planning, leading, implementing, supervising, and evaluating outdoor adventure programs for people with disabilities. The focus is on the abilities, rights, characteristics, and needs of people with varying abilities — including cognitive disabilities, mental illness, learning disabilities, physical disabilities, and sensory impairments — that impact participation in outdoor adventure. Use of outdoor adventure as therapeutic intervention is also examined. Prerequisites: TRLS-12500. 3 credits. (FIRR)

TRLS-27700 Ecotourism and Natural Resource Management LA g
Examines ecotourism from an international perspective. Emphasis is placed on management of the natural resources necessary in delivering a variety of ecotourist attractions (wildlife, plant life, scenery). Additionally, cultural resources associated with aboriginal cultures are explored. A majority of the course is spent traveling to various private and public ecotourism ventures (e.g., whale watching, hiking, sea kayaking). Students engage in the ecotourism ventures, as well as meet leisure service personnel who own, operate, and direct these ventures. Includes fee for travel, food, and gear rental. Prerequisites: Sophomore standing. 1–3 credits. (Y)

TRLS-33000 Administration and Supervision NLA
Introduction to basic concepts of organization, administration, and supervision of leisure service agencies. The administrative functions covered include personnel management, budgets, finance, resource planning, public relations, evaluation, legal issues, policy development, and problem-solving techniques. Prerequisites: TRLS-23200; TRLS-24000. 3 credits. (F-S,Y)

TRLS-33200 Research Methods LA 2b
Procedures and applications of social science research methods to recreational settings. Topics include research design, methods of data collection, and the presentation and interpretation of data. Prerequisites: TRLS-10500; TRLS-23200; junior standing. 3 credits. (S,Y)

TRLS-33400 Leisure Education LA 1
The recreation professional is considered a facilitator of his or her clients' expanded leisure awareness. Focus is on enabling clients to evaluate the individual and social dynamics of leisure and to assess their leisure attitudes, skills, and options. Prerequisites: TRLS-10100 or TRLS-10300. 3 credits. (F-Y)

Recruitment Courses
Recruitment Courses

**TRLS-33600 Commercial Recreation**

Study of commercial and entrepreneurial recreation as a major component of the leisure service delivery system. Analysis of the development potential of different types of recreation enterprises, including resources, location, risks, sources of financing, pricing, managerial requirements, marketing, and sources of technical assistance. Prerequisites: TRLS-33000 or a level-2 business or economics course. 3 credits. (S,E)

**TRLS-34000 Inclusive Community Leisure Services**

Principles and techniques to include people with disabilities in regular, community leisure services. Rationale for inclusion, historical context, and legislative initiatives are addressed. Strategies highlighted include needs assessment, staff training, environmental analysis, sensitization training for peers without disabilities, trainer advocacy, behavioral teaching techniques, cooperative learning, friendship development, and evaluation techniques. A 20-hour volunteer experience is required. Prerequisites: TRLS-12500; junior standing. 3 credits. (F,Y)

**TRLS-34800 Fieldwork II**

Fieldwork in a leisure service agency compatible with the student's career interests and talents. The experience focuses on learning the responsibilities of a recreation administrator and/or supervisor. This course encourages practical application of concepts discussed in TRLS-33000 Administration and Supervision. Prerequisites: TRLS-24300. Corequisites: TRLS-33000. 3 credits. (F-S,Y)

**TRLS-34900 Advanced Fieldwork**

Practical in-depth work experience in a leisure service agency. Prerequisites: TRLS-34800; permission of department chair. 2–6 credits. (F-S,Y)

**TRLS-35000 Therapeutic Recreation Process I**

Introduction to the therapeutic recreation process, including the application of theory, client assessment, individualized treatment plan development, intervention planning, and documentation procedures. Focuses on the development and application of knowledge and skills necessary for meeting professional standards of practice, accreditation requirements, and third party payment criteria. Prerequisites: TRLS-12500; TRLS-23300. 3 credits. (F,Y)

**TRLS-35200 Outdoor Education**

Basic concepts in environmental interpretation and ecology, development of outdoor education programs, and laboratory experience in the outdoors. Three-day field trip is required; additional fee is charged. Prerequisites: TRLS-10500; sophomore standing. 3 credits. (F,Y)

**TRLS-35300 Clinical Applications in Therapeutic Recreation**

An interdisciplinary experiential learning lab at which students apply the knowledge they learn in TRLS-35000 Therapeutic Recreation Process I and TRLS-36000 Therapeutic Recreation Process II. Students are assigned a caseload and are responsible for assessment, treatment plan development, intervention planning, and documentation on assigned clients. Participation in interdisciplinary team meetings is required. Prerequisites: TRLS-23300. Corequisites: TRLS-35000 (F); TRLS-36000 (S). 0.5 credits. (F-S,Y)

**TRLS-35400 Leadership and Administration of Outdoor Pursuits**

Principles and practices in planning, implementing, leading, supervising, and evaluating outdoor trips and programs. Emphasis is given to wilderness leadership techniques and programming. Students study leadership theory and administration of outdoor programs while planning an expedition-style backcountry trip to be carried out in TRLS-42100 Wilderness Expedition Leadership. This course is the second of three courses in the outdoor adventure leadership major using the Wilderness Education Association (WEA) curriculum, satisfying the in-class portions of the WEA National Standards Program for outdoor leadership certification. Prerequisites: TRLS-15100; TRLS-21600; sophomore standing. 3 credits. (F,E)

**TRLS-35700 Therapeutic Recreation in the Schools**

Prepares students to deliver therapeutic recreation services to students with disabilities in public school systems, as mandated by the Individuals with Disabilities Education Act. Students learn to apply the therapeutic recreation process in a school setting and develop appropriate recreation goals for individualized education plans. Curricula to support therapeutic recreation in the schools are identified, as well as the roles therapeutic recreation specialists can play to advocate for and deliver leisure education in schools. Through a case study method, students apply concepts and techniques to an actual public school setting. Prerequisites: TRLS-23300; junior standing. 3 credits. (HRR)

**TRLS-36000 Therapeutic Recreation Process II**

Advanced study of the therapeutic recreation process, including the design and implementation of agency-specific assessments, standardized interdisciplinary assessment instruments, and systems design program planning and evaluation. Focuses on interdisciplinary treatment plan development and intervention planning. Prerequisites: TRLS-35000. 3 credits. (S,Y)

**TRLS-36600 Social and Cultural Aspects of Play**

Explores qualities of play through interdisciplinary course readings, experiential learning, and in-depth class discussion. Students learn about social and cultural aspects of play and rekindle their personal sense of playfulness. Prerequisites: Three courses from recreation (TRLS-xxxx), psychology (PSYC-xxxx), anthropology (ANTH-xxxx), history (HIST-xxxx), music (MUTH-xxxx), philosophy (PHIL-xxxx), or sociology (SOCI-xxxx); junior standing. 3 credits. (IRR)

**TRLS-39900–TRLS-39999 Selected Topics in Recreation**

Topics of current interest to faculty and students. Experimental courses are offered under this course number and title. This course may be repeated for credit for different selected topics. Prerequisites: As appropriate to topics. 1–3 credits. (IRR)

**TRLS-42100 Wilderness Expedition Leadership**

Capstone course of the outdoor adventure leadership major. Entails up to 30 days of living, traveling, and developing skills outdoors in a wilderness setting. Emphasis is on the development of sound judgment, decision making, and teaching skills with groups in adventurous wilderness activities. This course is structured around personal ability and knowledge improvement to create a fair assessment of students coming into the course with varying leadership and skills ability. Fee charged to cover expedition expenses. When taken in sequence with TRLS-21600 and TRLS-34500, this course may lead to National Standards Program for Outdoor Leadership (NSP) certification through the Wilderness Education Association (WEA). Applying for WEA NSF certification is optional and subject to an additional fee. Prerequisites: TRLS-35400; 600 hours of logged field experience; TRLS major or minor. 3 credits. (S)

**TRLS-43300 Administration of Therapeutic Recreation**

Provides an awareness and working knowledge of the skills needed to administer a therapeutic recreation department. Topics to be discussed include standards of practice, accreditation standards, third-party reimbursements, alternate funding sources, team involvement and intervention, marketing, clinical supervision, and continuous quality management as it relates to the therapeutic recreation process. Prerequisites: TRLS-33000. 3 credits. (S,Y)

**TRLS-44100 Internship in Recreation and Leisure Studies**

Supervised, full-time work experience during the summer or regular academic school year in a leisure service agency. Prerequisites: Minimum cumulative GPA of 2.0; minimum GPA of 3.00 in TRLS courses of 2.50; minimum average of 3.00 in TRLS-24300 and TRLS-34500; completion of at least 24 credits of required recreation courses (TRLS-xxxxx) and 6 credits of recreation electives; approval of department chair. 6–9 credits. (F,S,Sum,Y)

**TRLS-45000–TRLS-45099 Independent Study**

Individual pursuit of the solution to a problem of interest to the student and consultant faculty member. Prerequisites: TRLS-33200; permission of department chair. 1–3 credits. (F-S,Sum,Y)

**TRLS-45300 Seminar: Professional Development**

Capstone course to develop skills necessary for professional involvement after graduation. Topics include an in-depth study of the national certification processes, professional organizations and committee involvement, and legislative and consumer advocacy skills. Students also learn to develop proposals for presentations at professional conferences and develop presentation skills, including the use of handouts, overheads, and multimedia presentations. Professional publications and publication requirements are discussed. Prerequisites: TRLS-33000. 3 credits. (F-S,Y)

**TRLS-46000 Seminar: Health Care Teams**

The theory and practice of other health care professions. Introduction to the essential knowledge that can facilitate interaction among health science professionals and enable them to become more effective members of interdisciplinary teams. Cross-listed with SLPA-46000. Students may not receive credit for both TRLS-46000 and SLPA-46000. Prerequisites: Senior standing in a health sciences and human performance major. 3 credits. (F,Y)