EXERCISE SCIENCE

Gary Morin
CHAIRPERSON
Pelz Gymnasium
(203) 392-6089 – Fax (203) 392-6093
moring1@SouthernCT.edu
Department Secretary: (203) 392-6080

Robert S. Axtell, Professor
Catherine Berei, Assistant Professor
Eleni Diakogeorgiou, Assistant Professor
Bonnie Edmondson, Associate Professor
Marybeth Fede, Professor
Robert Gregory, Associate Professor
David S. Kemler, Professor
Joan Kreiger, Assistant Professor
Peter Latchman, Associate Professor
William Lunn, Associate Professor
Doris Marino, Associate Professor
Sharon P. Misasi, Professor
Gary E. Morin, Professor
Patricia Panichas, Professor
Marc Robertson, Assistant Professor
Matthew Rothbard, Associate Professor
Daniel Swartz, Professor
Jin Jin Yang, Professor

MAJOR PROGRAMS

The Exercise Science Department offers a B.S. degree in athletic training, and a B.S. degree in exercise science with concentrations in human performance and teacher education (required for certification).

B.S. DEGREE IN ATHLETIC TRAINING

The Athletic Training Education Program serves students who have an interest in the prevention, diagnosis and intervention of emergency acute, and chronic medical conditions involving impairment and disabilities to athletes and similarly active individuals. Accredited by the Commission on Accreditation of Athletic Training Education (CAATE), the program is designed to prepare students to work as entry-level athletic trainers with athletic programs, hospitals and clinical settings, military, corporate, public safety, and performing arts. Those students completing this program receive a B.S. degree in athletic training. Students will also meet eligibility requirements
established by the Board of Certification Inc. to sit for the national examination in the semester prior to graduation.

**Athletic Training Admission Requirements**

The program has a competitive admissions process. Students achieving an overall GPA of 3.0 and earning a B- or better in EXS 158, 185, and 281 will be accepted into the program provided all other entrance requirements are met. If less than 18 students meet the previous requirements, students with a GPA of 2.7 or higher will be accepted, on a space available basis, provided all other program admission requirements have been met. Student selection will be based on established criterion, which is available on the athletic training website or through contacting the program coordinator. Up to 18 students will be selected for formal program admission unless more than 18 applications achieve the first condition.

Application materials are due by the third Monday of April. Candidates will be informed of their acceptance status in June. Depending on the number and quality of students applying, students should be aware that earning a GPA between 2.7 and 3.0 does not guarantee acceptance even if all other requirements have been met.

A student seeking admission must meet with or without reasonable accommodations technical standards established to insure graduates are capable of fulfilling physical and mental requirements for professional practice. These include abilities and skills in five categories: observation, communications, motor, intellectual, and behavioral/social. Students must verify their ability to meet these technical standards with or without reasonable accommodations on a signed submitted technical standards form which is available on the Athletic Training Program website. If there are any questions, please contact the Athletic Training Program Coordinator. Candidates who require accommodations to fulfill the technical standards due to a disability are encouraged to contact the Disability Resource Center (DCR) at (203) 392-6828. Information regarding the process and policies can be found on the DRC website.

In addition, standard program admissions requirements include:

- Minimum grade point average of 2.7 overall, which must be maintained until graduation.
- Successful completion of EXS 158, 185, and 281 (C- or better).
- Successful completion of entrance examinations (70% or better).
- Admission Interview with Athletic Training faculty.
- Successful completion of 15 athletic training observation hours.
- Current certification in emergency cardiac care which includes education in Adult CPR and AED.
- Three letters of recommendation.

Note: Online CPR courses are only acceptable if skills are demonstrated and tested in person by a qualified instructor.

Transfer students normally must follow the four year curriculum outlined in the plan of study. Transfer students who have previously attended an accredited athletic training program may be able to receive credit for certain didactic courses. These students will
be handled on a case by case basis. Potential transfer students are encouraged to visit the program website or the Program Director, Dr. Gary Morin, for more information on the Athletic Training Program policy.

**Athletic Training Retention**

Student retention and timely progress through the curriculum requires that minimum standards are maintained. In addition to maintaining a minimum GPA of 2.7 through graduation, students must:

- Successfully pass retention examinations (70% or better)
- Earn a C- or better in all professional/major courses
- Complete Professional Development Units
- Maintain CPR certification

Professional Development Units (PDU) are earned through participation in professional organizations, volunteerism, and other activities beyond course requirements. The number of PDUs vary by the student's year in the program and must be earned during a specific time period:

<table>
<thead>
<tr>
<th>Year</th>
<th>PDUs</th>
<th>Time Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sophomores</td>
<td>12 PDUs</td>
<td>June 1-May 31 (following acceptance into program)</td>
</tr>
<tr>
<td>Seniors</td>
<td>24 PDUs</td>
<td>June 1-May 31 (end of sophomore year to end of junior year)</td>
</tr>
<tr>
<td>Seniors</td>
<td>12 PDUs</td>
<td>June 1-December 31 (end of junior year to end of Fall semester of senior year)</td>
</tr>
</tbody>
</table>

Failure to meet retention or prerequisite course requirements may result in (a) increased time to graduation or (b) placement on probationary status and/or removal from the Athletic Training Program. For additional information on these guidelines or any of the retention requirements, please consult the Athletic Training Student Manual, located on the Athletic Training program website.

Completion of extensive clinical observation and experiences are required for successful completion of the Athletic Training Program. The number of contact days per semester will vary according to the student's year in the program. Clinical contact days are primarily completed during the fall and spring semesters. Students not completing clinical contact days during the fall and spring semesters must finish requirements during the summer and/or winter. Clinical contact days may occur during weekends, holidays, early mornings, and/or late evenings. Through these clinical contact days, students will complete a minimum of 600 to a maximum of 1800 hours of clinical experience after acceptance into the program. Students are recommended to see the catalog course descriptions for EXS 202, 203, 302, 303, 402, and 403 for information regarding clinical contact day requirements.

Students are responsible for any CPR, transportation, and/or clothing costs involved with clinical experiences.
B.S. DEGREE IN EXERCISE SCIENCE

Concentration In Human Performance

This concentration in human performance is a non-teaching Bachelor of Science degree option for exercise science majors. The curriculum is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) and provides students with an understanding of the exercise sciences which include exercise physiology, biomechanics, nutrition, sport psychology, strength and conditioning, and exercise prescription. The required 6-credit practicum provides the student an opportunity to apply scientific coursework principles in an exercise, fitness, research, or clinical setting. Opportunities for employment following graduation include adult or youth fitness, cardiac rehabilitation, strength and conditioning specialist, personal training, environmental physiology research, further schooling in physical therapy, and special population fitness such as the elderly or infirm.

In order to attract and hold a superior quality of major students, the faculty of the Exercise Science Department has established minimum admission and retention standards for all students who desire to major in Exercise Science—Human Performance.

Human Performance Application

All incoming freshmen and transfers majoring in Exercise Science with a concentration in Human Performance will be listed as Exercise Science-Pre-Human Performance majors. Following application (see below) and having achieved acceptance into the Human Performance professional program, students will then become full Exercise Science-Human Performance majors once the program coordinator notifies the Registrar of accepted students. Students are not allowed to register for 300- or 400-level Exercise Science-Human Performance courses, except EXS 380, until they have achieved full Exercise Science-Human Performance status through the Registrar.

Human Performance Admission Requirements

During the second semester of the sophomore year, the student must apply for admission into the Human Performance program. Transfer students should make this application during the first semester at Southern. Applications will be submitted online via a web-based application module. Interviews follow the application submission and are conducted every Fall and Spring semester. Application packets, which include the essay, transcripts, and resume (detailed below) must be uploaded by October 1 for the Fall semester and March 1 for the Spring semester. Recommendation letters are submitted manually. Applicants will be notified of the acceptance decision by letter over the winter or summer break.

The following criteria must be satisfied for acceptance:

- Overall university GPA of 2.7.
- Successful completion of the following courses:
• EXS 191 — Introduction to Exercise Science
• CHE 120 — General Chemistry
• PSY 100 — Introduction to Psychology
• MAT 122 — Precalculus
• PCH 200 — Introduction to Nutrition

Select one from:

• BIO 200 - Human Biology I ('C-' or better)
  • and BIO 201 - Human Biology II ('C-' or better)
• EXS 281 - Anatomy and Physiology I ('C-' or better)
  • and EXS 282 - Anatomy and Physiology II ('C-' or better)

Choice of one of the following Biology courses:

• BIO 100 — Zoology
• BIO 200 - Anatomy and Physiology I
• BIO 201 - Anatomy and Physiology II
• BIO 120 - Microbiology

Note: Successful completion is defined as a GPA of 2.7 or higher for these 8 courses with no single grade lower than C-.

• Introductory typed essay presented to the faculty demonstrating a command of the English language. This essay MUST include long- and short-term career/professional goals, and a statement of justification for department entry.
• Résumé
• Letters of recommendation (2) from non-Exercise Science faculty
• SCSU transcript (unofficial copy is acceptable)
• Interview with faculty panel to express proper attitudes and dispositions for the professional Human Performance program.
• Suggested involvement in Exercise Physiology Club, or other University club.
• Suggested professional activity such as workshop or regional/national conference attendance.

**Exercise Science Concentration in Teacher Education (K-12)**

The concentration in teacher education is designed for students who want to teach physical education in public and private schools. The successful completion of this program fulfills the academic course requirements of the Connecticut Initial Educator Certificate K-12 in Physical Education and prepares the individual to teach physical education in both the elementary and secondary schools. Certification requirements include the following:

Students working toward Physical Education K-12 must pass through four gates. To pass through each gate, students complete a specific set of courses and submit a portfolio in a required format that provides evidence of acceptable progress in meeting the Society of Health and Physical Education standards, School of Health and Human Services.
and School of Education expectations, CALL (Collaborating, Applying, Leading, and Learning), and State of Connecticut requirements.

**Exercise Science K-12 Requirements**

Gate 1: Students apply for admission to the Physical Education K-12 program and the School of Education. Students must meet the State of Connecticut requirements for admission to a teacher preparation program (specified in the Admission section of this catalog).

In addition, students must have passed the following courses with the minimum grade indicated for the exercise science courses: EXS 191 (C-), 281 (C-), 282 (C-), 291 (B-), 292 (B-), and 293 (B-). Students must also pass ENG 112; GPA must be a minimum of 2.7; and students must take the ACT, SAT, or Praxis® Core.

Gate 2: Students in Gate 2 take the following physical education teacher preparation courses with the minimum grade indicated: EXS 131 (pass), 184 (C-), 350 (B-), 352 (B-), 383 (C-), 400 (B-), 480 (C-), 483 (B-), and 485 (C-). (GPA must be 2.7 in all courses).

Gate 3: Students in Gate 3 must complete all courses in the program with the exception of EXS 452, EDU 453, and EXS 442. The following courses must be passed with the minimum grade indicated: EXS 384 (C-), 394 (B-), 495 (B-). (GPA must be 2.7)

Gate 4: Students in Gate 4 take Student Teaching I and II (EXS 452 and EXS 453) and a seminar course (EXS 442).

A passing score on Praxis® II is required for completion of teacher certification for most teacher candidates in the state of Connecticut. Students who are required to take this exam and who do not pass will not be recommended for certification.

**Bachelor of Science in Respiratory Therapy**

The Respiratory Care A.S.-to-B.S.R.T. curriculum provides students who hold an Associate’s Degree in respiratory care and the registered respiratory therapist (RRT) credential, with the necessary skills and knowledge to be fully prepared to further assume professional leadership roles in clinical practice, research, education, marketing, and management in the field of respiratory care. Students with an Associate's degree in Respiratory Therapy (minimum GPA 2.5) and a valid registered respiratory therapist (RRT) credential complete a dual admission process to be considered for this program.

Initially, students must apply to the University, via the Admissions Office. Then, an application is made to the Respiratory Care Program. Students may elect either a Clinical Track (RSPC which includes a 6-credit clinical component) or a Leadership Track (RSPL completed through coursework); all students are required to meet the minimum credit requirements of the University including courses from the Liberal Education Program (LEP). Courses in this program are offered in a variety of formats to meet the needs of the respiratory care professional: traditional classroom format, accelerated 8-week classes, online courses, and in a hybrid format (combination of traditional classroom and online).
Bachelor of Science in Respiratory Therapy Admission Requirements

- Associate's Degree in Respiratory Therapy
- Valid registered respiratory therapist (RRT) credential
- Overall university GPA of 2.5
- Successful completion of the following prerequisite courses:

  ENG 112 - Composition II (3 credits)
  MAT 107 or 108 - Elementary Statistics or Math for Natural Sciences (3 credits)
  BIO 110 - Human Biology I - Anatomy & Physiology I (4 credits)
  BIO 111 - Human Biology II - Anatomy & Physiology II (4 credits)
  BIO 120 - Microbiology (4 credits)
  CHE 101 or CHE 120 - Chemistry in Contemporary Issues or General Chemistry I (4 credits)
The department offers the following:

Athletic Training, B.S.
Exercise Science, B.S. - Concentration: Human Performance
Exercise Science K-12, B.S.
Respiratory Therapy, B.S. - Concentration: Clinical
Respiratory Therapy, B.S. - Concentration: Leadership
Minor in Coaching
Minor in Exercise Science
Minor in School Health Education
Minor in Sport Studies
ATHLETIC TRAINING, B.S.

This program has a separate admission process. Please consult the admission requirements for this program for more information.

Overall GPA of 2.7 Required
120 Overall Credits Required

LIBERAL EDUCATION PROGRAM AND WRITING REQUIREMENTS

Liberal Education Program

47 Credits Required

Students must complete a comprehensive three-tiered Liberal Education Program (LEP). View all requirements of the tiers on the Liberal Education Program.

While the choice of courses that fulfill the requirements is generally left up to students, some departments require that students select specific courses to complement their major. This major has specific Tier requirements/restrictions for the following:

Tier 1 - Quantitative Reasoning:
MAT 107 – Elementary Statistics

Tier 2 - Mind and Body:
PCH 201 – Wellness

Tier 2 – Natural World I: Physical Realm (select one):
CHE 120 – General Chemistry I
CHE 121 – General Chemistry II
PHY 200 – General Physics I
PHY 210 – College Physics

Tier 2 - Natural World II: Life and Environment (select one):
BIO 100 – General Zoology
BIO 120 – Microbiology
BIO 200 - Human Biology I (formerly BIO 110)
BIO 201 - Human Biology II (formerly BIO 111)

Tier 3 – Capstone:
EXS 403 – Athletic Training and Clinical Practice VI – Capstone in Athletic Training (‘C-’ or better)

Writing Requirements (“W-Courses”)

Three W-courses are required. These may not be taken until after a student has passed ENG 112 — Writing Arguments. W-courses may count toward LEP, major, or cognate
requirements, as well as free electives. Course sections that meet this requirement are designated by section numbers ending in “W”.

Transfer students who enter with 60 to 89 credits are required to pass two W-courses, while transfer students who enter with 90 credits or more must pass one W-course.

MAJOR REQUIREMENTS

59 Credits Required
‘C-’ or better required in all EXS courses
EXS 158 – Athletic Training Professional Practice
EXS 185 – Concepts and Practices of Athletic Training
EXS 202 – Athletic Training Clinical Practice I: Professional Practice
EXS 203 – Athletic Training Clinical Practice II: Injury and Illness Prevention
EXS 227 – Emergency Principles of Athletic Training
EXS 281 – Anatomy and Physiology I
EXS 282 – Anatomy and Physiology II
EXS 283 – Clinical Anatomy and Kinesiology
EXS 286 – Physical Agents for Musculoskeletal Injuries
EXS 288 – Orthopedic Assessment of Lumbar Spine and Lower Extremities
EXS 289 – Orthopedic Assessment of Cervical Spine and Upper Extremities
EXS 301 – Exercise and Nutrition
EXS 302 – Athletic Training Clinical Practice III: Orthopedic
EXS 303 – Athletic Training Clinical Practice IV: General Medicine
EXS 308 – Essentials of Strength and Conditioning
EXS 328 – Orthopedic Appliances and Advanced Taping Techniques
EXS 380 – Sport Psychology
EXS 383 – Biomechanics of Sport and Exercise
EXS 384 – Exercise Physiology
EXS 388 – Therapeutic Exercise for Musculoskeletal Injuries
EXS 402 – Athletic Training Clinical Practice V: Treatment and Rehabilitation
EXS 411 – General Medical Perspectives
EXS 490 – Organization and Administration in Athletic Training

COGNATE REQUIREMENTS

No cognates are required.

FREE ELECTIVES

Remaining credits to reach Overall Credits Required (listed above).
RESPIRATORY THERAPY, BS - CONCENTRATION: CLINICAL

This program has a separate admission process. Please consult the admission requirements for this program for more information.

Overall GPA of 2.5 Required
120 Overall Credits Required

LIBERAL EDUCATION PROGRAM AND WRITING REQUIREMENTS

**Liberal Education Program**

46 Credits Required

Students must complete a comprehensive three-tiered Liberal Education Program (LEP). View all requirements of the tiers on the Liberal Education Program.

While the choice of courses that fulfill the requirements is generally left up to students, some departments require that students select specific courses to complement their major. This major has specific Tier requirements/restrictions for the following:

Tier 1 - Quantitative Reasoning (select one):
MAT 107 - Elementary Statistics ('C' or better)
MAT 108 - Mathematics for the Natural Sciences ('C' or better)

Tier 1 - Written Communication:
ENG 112 - Writing Arguments ('C' or better)

Tier 2 - Natural World II: Life and Environment
BIO 200 - Human Biology I ('C' or better)

**Writing Requirements (“W-Courses”)**

Three W-courses are required. These may not be taken until after a student has passed ENG 112 — Writing Arguments. W-courses may count toward LEP, major, or cognate requirements, as well as free electives. Course sections that meet this requirement are designated by section numbers ending in “W”.

Transfer students who enter with 60 to 89 credits are required to pass two W-courses, while transfer students who enter with 90 credits or more must pass one W-course.

**MAJOR REQUIREMENTS**

36 Credits Required
'C' or better

Requirements:

RSP 330 - Case Studies in Medical Ethics
RSP 340 - Principles of Care Coordination in Respiratory Disease Management
RSP 420 - Neonatal-Pediatric Care
RSP 425 - Respiratory Care Education
RSP 440 - Evidenced Based Practice & Research in Respiratory Care
RSP 445 - Respiratory Care Seminar
RSP 455 - Clinical Practicum I
RSP 457 - Clinical Practicum II
EXS 410 - Pathophysiology
EXS 411 - General Medical Perspectives

Select 6 credits from:

• RSP 315 - Healthcare in the Age of Mass Media
• RSP 325 - Dimensions of Healthcare Leadership
• RSP 415 - Healthcare Essentials
• RSP 461 - Adult Critical Care Specialty Practice Preparation
• RSP 463 - Neonatal/Pediatric Specialty Practice Exam Preparation
• RSP 465 - Sleep Disorders Specialty Practice Exam Preparation
• RSP 467 - CPFT Practice Exam Preparation
• ANT 380 or WMS 380 - Anthropology of Women and Health
• PCH 201 - Wellness
• PCH 351 - Health in Society
• PCH 352 - Health, Disease and Culture or ANT 312 - Medical Anthropology
• PCH 353 - Global Health
• PCH 450 - Death, Dying, and Bereavement
• REC 307 - Disabilities in Society
• SOC 344 - Medical Sociology

COGNATE REQUIREMENTS

Courses used to fulfill LEP may be used toward these requirements

'C' or better

ENG 112 - Writing Arguments
MAT 107 - Elementary Statistics or MAT 108 - Mathematics for the Natural Sciences
BIO 110 - Human Biology I
BIO 111 - Human Biology II
BIO 120 - Microbiology
CHE 101 - Chemistry in Contemporary Issues or CHE 120 - General Chemistry I

FREE ELECTIVES
Students must take remaining credits to reach Overall Credits Required (listed above).
EXERCISE SCIENCE, B.S. - CONCENTRATION: HUMAN PERFORMANCE

This program has a separate admission process. Please consult the admission requirements for this program for more information.

Overall GPA of 2.7 Required
120 Overall Credits Required

LIBERAL EDUCATION PROGRAM AND WRITING REQUIREMENTS

Liberal Education Program

51 Credits Required

Students must complete a comprehensive three-tiered Liberal Education Program (LEP). View all requirements of the tiers on the Liberal Education Program.

While the choice of courses that fulfill the requirements is generally left up to students, some departments require that students select specific courses to complement their major. This major has specific Tier requirements/restrictions for the following:

Tier 1 - Quantitative Reasoning:
MAT 122 - Precalculus

Tier 2 - Mind and Body:
PSY 100 – Introduction to Psychology

Tier 2 – Natural World I: Physical Realm:
CHE 120 – General Chemistry I

Tier 2 - Natural World II: Life and Environment (select one):
BIO 100 – General Zoology
BIO 120 – Microbiology

Tier 3 – Capstone:
EXS 497 – Human Performance Practicum

Writing Requirements (“W-Courses”)

Three W-courses are required. These may not be taken until after a student has passed ENG 112 — Writing Arguments. W-courses may count toward LEP, major, or cognate requirements, as well as free electives. Course sections that meet this requirement are designated by section numbers ending in “W”. 
Transfer students who enter with 60 to 89 credits are required to pass two W-courses, while transfer students who enter with 90 credits or more must pass one W-course.

MAJOR REQUIREMENTS

40.5 Credits Required

Requirements:
EXS 191 – Introduction to Exercise Science ('C-' or better)
EXS 301 – Exercise and Nutrition ('C' or better)
EXS 308 – Essentials of Strength and Conditioning ('C' or better)
EXS 380 – Sport Psychology
EXS 383 – Biomechanics of Sport and Exercise ('C' or better)
EXS 384 – Exercise Physiology I ('C' or better)
EXS 386 – Fitness Management ('C' or better)
EXS 387 - Standard First Aide and Personal Safety
EXS 389 – Exercise Physiology II ('C' or better)
EXS 411 – General Medical Perspectives ('C' or better)
EXS 421 – Organization and Administration in Human Performance ('C' or better)
EXS 485 – Measurement and Statistics in Exercise Science ('C' or better)
Select one from:

• BIO 200 - Human Biology I ('C-' or better)
  • and BIO 201 - Human Biology II ('C-' or better)
• EXS 281 – Anatomy and Physiology I ('C-' or better)
  • and EXS 282 – Anatomy and Physiology II ('C-' or better)

Select one:

• EXS 131 – Swimming
• EXS 332 – Lifeguard Training
• EXS 334 – Water Safety Instructor
• EXS 336 – SCUBA Diving

NOTE: Courses used for major requirements may not be applied to the LEP.

COGNATE REQUIREMENTS

7 Credits Required

PCH 200 - Introduction to Nutrition

Select one ('C-' or better):

• PHY 200 - General Physics I
• PHY 210 - College Physics
• PHY 230 - Physics for Scientists and Engineers I

FREE ELECTIVES
Remaining credits to reach Overall Credits Required (listed above).
EXERCISE SCIENCE K-12, B.S.

This program has a separate admission process. Please consult the admission requirements for this program on the School of Education page for more information.

Overall GPA of 2.7 is required.
120 Overall Credits Required

LIBERAL EDUCATION PROGRAM AND WRITING REQUIREMENTS

Liberal Education Program

46 Credits Required

Students must complete a comprehensive three-tiered Liberal Education Program (LEP). View all requirements of the tiers on the Liberal Education Program.

While the choice of courses that fulfill the requirements is generally left up to students, some departments require that students select specific courses to complement their major. This major has specific Tier requirements/restrictions for the following:

Tier 2 – American Experience (select one):
HIS 110 – United States History I
HIS 111 – United States History II

Tier 2 - Creative Drive
EXS 293 - Movement Foundations

Tier 2 – Mind and Body:
SHE 203 – School Health

Tier 2 – Natural World II: Life and Environment (Select one):
BIO 100 – General Zoology
BIO 120 – Microbiology
BIO 200 - Human Biology I (formerly BIO 110)
BIO 201 - Human Biology II (formerly BIO 111)

Tier 2 - Social Structure, Conflict, and Consensus:
EDU 200 - Teachers, Schools, and Society

Tier 3 – Capstone:
EXS 442 – Practicum Seminar in Physical Education

Writing Requirements (“W-Courses”)

Three W-courses are required. These may not be taken until after a student has passed ENG 112 — Writing Arguments. W-courses may count toward LEP, major, or cognate
requirements, as well as free electives. Course sections that meet this requirement are designated by section numbers ending in “W”.

Transfer students who enter with 60 to 89 credits are required to pass two W-courses, while transfer students who enter with 90 credits or more must pass one W-course.

MAJOR REQUIREMENTS

69.5 Credits Required

Exercise Science Requirements
62.5 Credits Required

Requirements:
EXS 131 – Swimming
EXS 191 – Introduction to Exercise Science (‘C-' or better)
EXS 281 – Anatomy and Physiology I (‘C-' or better)
EXS 282 – Anatomy and Physiology II (‘C-' or better)
EXS 291 – Exploring the Teaching of Physical Education (‘B-' or better)
EXS 292 – Instructional Strategies for Physical Education (‘B-' or better)
EXS 350 – Teaching Physical Fitness K-12 (‘B-' or better)
EXS 352 – Individual and Dual Skills and Sports (‘B-' or better)
EXS 383 – Biomechanics (‘C-' or better)
EXS 384 – Exercise Physiology (‘C-' or better)
EXS 387 - Standard First Aide and Personal Safety (‘C-' or better)
EXS 394 – Physical Education (Elementary School) (‘B-' or better)
EXS 400 – Group and Team Activities, Sports, and Tactics (‘B-' or better)
EXS 452 – Elementary Physical Education Student Teaching
EXS 453 – Secondary Physical Education Student Teaching
EXS 480 – Motor Learning and Development (‘C-' or better)
EXS 483 – Adapted Physical Education (‘B-' or better)
EXS 485 – Measurement and Statistics in Exercise Science (‘C-' or better)
EXS 495 – Physical Education (Secondary) (‘B-' or better)

Education Requirements
9 Credits Required

Requirements:
EDU 316 – Child Development and Psychology for Educators
EDU 471 - Supporting English Learners for School Success (formerly IDS 471)
RDG 470 - Literacy in the Content Areas (formerly IDS 470)

Select one:
- SED 481 – Teaching Exceptional Students in the Elementary Education Classroom
- SED 482 – Teaching Exceptional Students in the Secondary Education Classroom

COGNATE REQUIREMENTS
No cognates are required.

FREE ELECTIVES

Students must take remaining credits to reach Overall Credits Required (listed above).
RESPIRATORY THERAPY, BS - CONCENTRATION: LEADERSHIP

This program has a separate admission process. Please consult the admission requirements for this program for more information.

Overall GPA of 2.5 Required
120 Overall Credits Required

LIBERAL EDUCATION PROGRAM AND WRITING REQUIREMENTS

Liberal Education Program

46 Credits Required

Students must complete a comprehensive three-tiered Liberal Education Program (LEP). View all requirements of the tiers on the Liberal Education Program.

While the choice of courses that fulfill the requirements is generally left up to students, some departments require that students select specific courses to complement their major. This major has specific Tier requirements/restrictions for the following:

Tier 1 - Quantitative Reasoning (select one):
MAT 107 - Elementary Statistics ('C' or better)
MAT 108 - Mathematics for the Natural Sciences ('C' or better)

Tier 1 - Written Communication:
ENG 112 - Writing Arguments ('C' or better)

Tier 2 - Natural World II: Life and Environment
BIO 200 - Human Biology I ('C' or better) (formerly BIO 110)

Writing Requirements (“W-Courses”)

Three W-courses are required. These may not be taken until after a student has passed ENG 112 — Writing Arguments. W-courses may count toward LEP, major, or cognate requirements, as well as free electives. Course sections that meet this requirement are designated by section numbers ending in “W”.

Transfer students who enter with 60 to 89 credits are required to pass two W-courses, while transfer students who enter with 90 credits or more must pass one W-course.

MAJOR REQUIREMENTS

36 Credits Required
'C' or better

Requirements:
RSP 325 - Dimensions of Healthcare Leadership
RSP 415 - Healthcare Essentials
RSP 330 - Case Studies in Medical Ethics
RSP 340 - Principles of Care Coordination in Respiratory Disease Management
RSP 420 - Neonatal-Pediatric Care
RSP 425 - Respiratory Care Education
RSP 440 - Evidenced Based Practice & Research in Respiratory Care
RSP 445 - Respiratory Care Seminar
EXS 410 - Pathophysiology
EXS 411 - General Medical Perspectives

Select 6 credits from:
- RSP 315 - Healthcare in the Age of Mass Media
- RSP 455 - Clinical Practicum I
  RSP 457 - Clinical Practicum II
- RSP 461 - Adult Critical Care Specialty Practice Preparation
- RSP 463 - Neonatal/Pediatric Specialty Practice Exam Preparation
- RSP 465 - Sleep Disorders Specialty Practice Exam Preparation
- RSP 467 - CPFT Practice Exam Preparation
- ANT 380 or WMS 380 - Anthropology of Women and Health
- PCH 201 - Wellness
- PCH 351 - Health in Society
- PCH 352 - Health, Disease and Culture or ANT 312 - Medical Anthropology
- PCH 353 - Global Health
- PCH 450 - Death, Dying, and Bereavement
- REC 307 - Disabilities in Society
- SOC 344 - Medical Sociology

COGNATE REQUIREMENTS

Courses used to fulfill LEP may be used toward these requirements

'C' or better

ENG 112 - Writing Arguments
MAT 107 - Elementary Statistics or MAT 108 - Mathematics for the Natural Sciences
BIO 110 - Human Biology I
BIO 111 - Human Biology II
BIO 120 - Microbiology
CHE 101 - Chemistry in Contemporary Issues or CHE 120 - General Chemistry I

FREE ELECTIVES

Students must take remaining credits to reach Overall Credits Required (listed above).
COURSES

EXS 011 - Fit for Life I
Provide insight and experience into the philosophy of adult fitness, principles of exercise, individualized program construction and the safe use of weight training & aerobic exercise equipment. The course is designed for adults seeking basic knowledge and selective participation in the wholesome use of exercise.
Last Offered: Spring 2019
.5 credits

EXS 012 - Fit for Life II
Provide insight and experience into the philosophy of adult fitness, principles of exercise, individualized program construction and the safe use of weight training & aerobic exercise equipment. The course is designed for adults seeking basic knowledge and selective participation in the wholesome use of exercise.
Prerequisite(s): Non-EXS major
Last Offered: Spring 2019
.5 credits

EXS 131 - Swimming
Acquaints the exercise science major with diverse activities and equip the student with the water skills and knowledge necessary to be safe in, on, under and around the water.
Prerequisite(s): EXS major
Last Offered: Spring 2019
.5 credits

EXS 158 - Athletic Training Professional Practice
Initial exposure to the role of the athletic trainer as a health care provider. Emphasizes the professional responsibilities and foundational knowledge, skills, and behaviors necessary for effective performance as an entry level athletic trainer. Course content includes introduction to sports medicine and the sports medicine team, history of the athletic training profession, standards of practice, medical terminology and basic principles of athletic training.
Prerequisite(s): Athletic Training Major.
Last Offered: Winter Session 2019
1 credits

EXS 184 - Introduction to Athletic Injury Care and Prevention
A basic introduction in injury assessment, emergency care, injury pathology, and injury management procedures are taught. Successful completion of this course will certify students in CPR and First Aid Basics.
Last Offered: Spring 2017
3 credits

EXS 185 - Concepts and Practices of Athletic Training
Analysis and application of prevention strategies for musculoskeletal injuries, illnesses, and other health related conditions.
Prerequisite(s): C- or better in EXS 158.
Last Offered: Spring 2019
3 credits

EXS 191 - Introduction to Exercise Science
Introduction to physical education, human performance, and sport studies. Includes historical and theoretical foundations along with current practices and professional opportunities within the fields.
Last Offered: Summer 2019
3 credits
EXS 202 - Athletic Training Clinical Practice I – Professional Practice

Observation and performance of professional skills under the direct supervision of a program approved health care provider emphasizing clinical proficiencies within the context of professional practice as an athletic trainer. Satisfactory completion of clinical assignments and a minimum of 30 contact days required.
Prerequisite(s): 'C-' or better in EXS 185 and EXS 281, acceptance into the athletic training major.
Last Offered: Fall 2018
1 credits

EXS 203 - Athletic Training Clinical Practice II – Injury and Illness Prevention

Observation and performance of professional skills under the direct supervision of a program approved health care provider emphasizing clinical proficiencies within the context of preventing injuries and medical conditions. Satisfactory completion of clinical assignments and a minimum of 30 contact days required.
Prerequisite(s): 'C-' or better in EXS 185 and EXS 202.
Last Offered: Spring 2019
1 credits

EXS 212 - Lifetime Physical Activity

Designed to encourage the inclusion of lifetime physical activity to promote an understanding of lifelong wellness and advocacy for physical activity, as well as identify its relationship to the prevention of hypokinetic diseases.
Last Offered: Summer 2019
3 credits

EXS 227 - Emergency Principles of Athletic Training

Provides the athletic training student with practical and cognitive knowledge necessary to care for emergency situations in the athletic setting. Topics include the care of serious wounds and the prevention of shock, care of sudden illness, and splinting/transporting procedures.
Prerequisite(s): Athletic Training Specialization.
Last Offered: Fall 2018
3 credits

EXS 280 - Survey of Anatomy and Physiology

An overview of body structure and function with fitness emphasis. Including musculoskeletal, cardiorespiratory, and neuroendocrine systems.
Last Offered: Fall 2018
3 credits

EXS 281 - Anatomy and Physiology I

Study of the structure and function of the human body, with emphasis on the skeletal system, muscular system, circulatory, respiratory, urinary, endocrine and nervous systems, and on the physiology of growth and development.
Last Offered: Spring 2019
3 credits

EXS 282 - Anatomy and Physiology II

Study of the structure and function of the human body, with emphasis on the skeletal system, muscular system, circulatory, respiratory, urinary, endocrine and nervous systems, and on the physiology of growth and development.
Last Offered: Spring 2019
3 credits
**EXS 283 - Clinical Anatomy and Kinesiology**

An investigation into human anatomy focusing on arthrokinematics and osteokinematics of bone articulations. Emphasis is placed on providing the fundamental knowledge necessary to understand dysfunction and applying therapeutic principles such as joint mobilizations. Included in the course is a review of anatomical structures and their relationship to the kinetic chain.

Prerequisite(s): Acceptance into Athletic Training Program or department permission

Last Offered: Fall 2018
2 credits

**EXS 286 - Physical Agents for Musculoskeletal Injuries**

Analysis and application of pain theories and tissue healing process related to the use of thermal, acoustical, mechanical, electrical, and manual agents. Lecture: 2 hours. Lab: 2 hours.

Prerequisite(s): C- or better in EXS 185, EXS 281, and EXS 288.

Last Offered: Spring 2019
3 credits

**EXS 288 - Orthopedic Assessment of Lumbar Spine and Lower Extremities**

Provides an in-depth view of injury assessment to the lower body and lumbar spine. Common injuries seen in the physically active are emphasized. Included are epidemiological, mechanical, postural, and physiological factors that contribute to injuries of the upper body. Course topics are illustrated within the laboratory setting, permitting students to develop competence in performing assessments prior to commencement of clinical rotations. Lecture, 2 hours; laboratory, 2 hours.

Prerequisite(s): 'C-' or better in EXS 281 or departmental permission.

Last Offered: Fall 2018
3 credits

**EXS 289 - Orthopedic Assessment of Cervical Spine and Upper Extremities**

Provides an in-depth view of injury assessment relative to posture, the thoracic and cervical spines, the head, and the upper extremities. Common injuries seen in the physically active are emphasized. Included are epidemiological, mechanical, postural, and physiological factors that contribute to injuries of the upper body. Course topics are illustrated within the laboratory setting, permitting students to develop competence in performing assessments prior to commencement of clinical rotations. Lecture, 2 hours; laboratory, 2 hours.

Prerequisite(s): C- or better in EXS 281 or departmental permission.

Last Offered: Spring 2019
3 credits

**EXS 291 - Exploring the Teaching of Physical Education**

A field-based pre-practicum with classroom follow-up. Provides an initial exposure to public school programs (K-12) through 48 hours of field experiences.

Prerequisite(s): EXS 191.

Last Offered: Fall 2018
3 credits

**EXS 292 - Instructional Strategies for Physical Education**

Focus is on teaching physical education to elementary, middle, and high school students, with instruction on developmental needs, teaching skills, analysis and observation, behavior management, and curriculum.

Prerequisite(s): EXS 291. Corequisite: EXS 293.

Last Offered: Spring 2019
3 credits
EXS 293 - Movement Foundations

Foundation for conceptual understanding, personal proficiency and instructional demonstration competency for all fundamental human movements and combinations of movement skills. Major conceptual and skill development components of the course are movement education, tumbling, dance movement, rhythms and dance fundamentals, and motor development and motor learning for children K-12, with an emphasis on K-3.
Prerequisite(s): EXS major and EXS 191.
Last Offered: Spring 2019
3 credits

EXS 301 - Exercise and Nutrition

An investigation and clarification of the relationship between exercise and nutrition as it pertains to the sub-discipline of human performance.
Prerequisite(s): PCH 200. Not open to Pre-Human Performance students.
Last Offered: Spring 2019
3 credits

EXS 302 - Athletic Training Clinical Practice III – Orthopedic Clinical Evaluation

Observation and performance of professional skills under the direct supervision of a program approved health care provider emphasizing the application of clinical proficiencies within the context of direct patient care specific to orthopedic evaluation. Satisfactory proficiency completion and a minimum of 45 contact days are required.
Prerequisite(s): ‘C-' or better in EXS 203, EXS 288, and EXS 289.
Last Offered: Fall 2018
2 credits

EXS 303 - Athletic Training Clinical Practice IV - General Medicine

Observation and performance of professional skills under the direct supervision of a program approved health care provider emphasizing the application of clinical proficiencies within the context of direct patient care specific to etiology, recognition, physical examination, management, prevention and referral of common medical conditions. Satisfactory proficiency completion and a minimum of 45 contact days are required.
Prerequisite(s): EXS 227, EXS 302, EXS 411
Last Offered: Spring 2019
2 credits

EXS 308 - Essentials of Strength and Conditioning

Response and adaptations to resistive, anaerobic, and aerobic exercise and training; practical application of scientific principles to human physical conditioning program with emphasis on enhancement of maximal strength, power, and high intensity endurance exercise.
Prerequisite(s): EXS 281 and EXS 282. Not open to Pre-Human Performance students.
Last Offered: Spring 2019
3 credits

EXS 328 - Orthopedic Appliances and Advanced Taping Techniques

The course provides the student with a strong understanding of the various orthopedic braces and advanced wrapping skills used in athletic training. Students are expected to use their knowledge of injury and apply it in the design, fitting and/or application of braces to a patient.
Prerequisite(s): C- or better in EXS 185, EXS 288, and EXS 289.
Last Offered: Spring 2019
2 credits
EXS 350 - Teaching Physical Fitness K-12
Builds on the content and competencies established in movement foundations. Applies conceptual understanding, personal proficiency and instructional demonstration competency for all fundamental human movements and combinations of movement skills to teaching of physical fitness K-12.
Prerequisite(s): EXS major, admission to professional program, and EXS 293.
Last Offered: Fall 2018
3 credits

EXS 352 - Individual and Dual Skills and Sports
Builds on the content and competencies established in Movement Foundations, and Teaching Physical Fitness K-12; applies conceptual understanding, personal proficiency and instructional demonstration competency for all fundamental human movements and combinations of movement skills to the teaching of individual skills and sports K-12.
Prerequisite(s): EXS major, admission to professional program, and EXS 293.
Last Offered: Spring 2019
3 credits

EXS 370 - Coaching Individual, Dual and Team Sports
Thorough examination of the methods of coaching team and individual sports, including the mechanics of the sport, conditioning and coaching techniques, practice organization, strategy, officiating, and safety measures.
Last Offered: Summer 2019
3 credits

EXS 380 - Sport Psychology
The study of the behavior of individuals engaged in human movement environments such as play, games, and sport. Emphasis is on selected aspects of psychology pertinent to those interested in sport such as arousal, motivation, perception, and team cohesion.
Prerequisite(s): ENG 112.
Last Offered: Summer 2019
3 credits

EXS 383 - Biomechanics of Sport and Exercise
Analysis and application of human motion based on anatomical and mechanical principles.
Prerequisite(s): EXS 281 and EXS 282. Not open to Pre-Human Performance students.
Last Offered: Summer 2019
3 credits

EXS 384 - Exercise Physiology
The physiological bases of human performance are covered. Primary concern is directed to the muscular, nervous, cardiovascular, and endocrine systems during periods of exercise.
Prerequisite(s): EXS 281 and EXS 282. Not open to Pre-Human Performance students.
Last Offered: Spring 2019
3 credits

EXS 386 - Fitness Management
Concepts and practice concerning the duties of an exercise leader, his relationship with the general public, and the operation of fitness center facilities.
Prerequisite(s): EXS 383 and EXS 384. Not open to Pre-Human Performance students.
Last Offered: Spring 2019
3 credits

EXS 387 - Standard First Aid and Personal Safety
No Description Available
Last Offered: Spring 2019
1 credits

EXS 388 - Therapeutic Exercise for Musculoskeletal Injuries
Analysis and application of rehabilitative principles, equipment, and exercises in the treatment of musculoskeletal injuries to physically active individuals. Students develop and implement programs to correct deficits in the upper and lower extremities, and spine to restore a patient to full physical activity and athletic participation. Lecture: 2 hours. Lab: 2 hours.
Prerequisite(s): C- or better in EXS 288 and EXS 289.
Last Offered: Fall 2018
3 credits
EXS 389 - Exercise Physiology II
An introduction to sports training and the effects of sports training on the musculoskeletal and energy systems of the body.
Prerequisite(s): EXS 384. Not open to Pre-Human Performance students.
Last Offered: Spring 2019
3 credits

EXS 394 - Physical Education (Elementary School)
A prerequisite to elementary student teaching. Content materials of the physical education program from kindergarten through grade 6, with organization of the elementary program and methods of teaching.
Prerequisite(s): Open only to physical education majors who have completed Gate 2 requirements.
Last Offered: Fall 2018
4 credits

EXS 400 - Group and Team Activities, Sports, and Tactics
Builds on the content of movement foundations, teaching physical fitness, and individual dual skills/sports.; applies fundamental human movements and combination skills to the teaching of group and team games and activities, sports, and tactics K-12. Major components of the course are group and team games, sport, and tactical applications of fundamental movements K-12; skill themes in games and activities; conceptual development in games and activities; and tactical concepts and skills.
Prerequisite(s): EXS major, admission to professional program, and EXS 293.
Last Offered: Fall 2018
3 credits

EXS 402 - Athletic Training Clinical Practice V: Treatment and Rehabilitation
Observation and performance of professional skills under the direct supervision of a program approved health care provider emphasizing the application of clinical proficiencies within the context of direct patient care specific to designing, implementing, and modifying treatment and rehabilitation programs. Satisfactory proficiency completion and a minimum of 60 contact days are required.
Prerequisite(s): EXS 286, EXS 303 and; EXS 308 may be taken concurrently
Last Offered: Fall 2018
3 credits

EXS 403 - Athletic Training Clinical Practice VI – Capstone in Athletic Training
Observe and perform professional skills under the direct supervision of a program approved health care provider emphasizing the application of clinical proficiencies within the context of patient care specific to prevention, immediate care, clinical evaluation, treatment, rehabilitation, reconditioning, organization and administration, and professional responsibility. Satisfactory proficiency completion and a minimum of 60 contact days are required.
Prerequisite(s): C- or better in EXS 402.
Last Offered: Spring 2019
3 credits

EXS 411 - General Medical Perspectives
Study of pharmacological agents and general medical conditions, disabilities, abnormalities, and diseases of physically active individuals. Included is the etiology, recognition, physical examination, management, prevention and referral of common medical conditions.
Prerequisite(s): EXS 282, formal acceptance into the athletic training or exercise science majors. Not open to Pre-Human Performance students.
Last Offered: Spring 2019
3 credits
EXS 412 - Medical Documentation
Instructs students interested in the rehabilitative healthcare professions in the proper use of medical documentation associated with assessment, rehabilitation, discharge summaries, and insurance reimbursement.
Last Offered: not yet offered
3 credits

EXS 421 - Organization and Administration in Human Performance
Addresses professional competencies required to successfully operate a physical fitness facility and maintain communication with clients and other target populations. Topics include budgeting, facility and personnel management, program development, marketing, and communication skills.
Prerequisite(s): Formal acceptance into Exercise Science Department and Human Performance concentration. Not open to Pre-Human Performance students.
Last Offered: Spring 2019
3 credits

EXS 442 - Practicum Seminar in Physical Education
The practicum seminar in conjunction with the student teaching period is the culminating experience where the students plan, implement, and evaluate the learning environment and their performance as pre-service teachers.
Last Offered: Spring 2019
3 credits

EXS 452 - Elementary Physical Education Student Teaching
Prearranged experiential learning program, to be planned, supervised, and evaluated for credit by faculty and field supervisors.
Prerequisite(s): EXS 394 and EXS 495
Last Offered: Spring 2019
6 credits

EXS 453 - Secondary Physical Education Student Teaching
Prearranged experiential learning program, to be planned, supervised, and evaluated for credit by faculty and field supervisors.
Prerequisite(s): EXS 394 and EXS 495.
Last Offered: Spring 2019
6 credits

EXS 480 - Motor Learning and Development
Study of major variables affecting the learning process as related to the acquisition of motor skills. Some laboratory exercises required.
Prerequisite(s): Junior status.
Last Offered: Spring 2019
3 credits

EXS 483 - Adapted Physical Education
This course familiarizes the student to the various disabilities he/she may encounter while teaching in the public school system. Also develops the student’s awareness and understanding of the programming necessary to fulfill the needs of the child who is unable to participate in a regular physical education class.
Last Offered: Spring 2019
3 credits

EXS 485 - Measurement and Statistics in Exercise Science
Elementary statistics and testing as applied to health and physical education, with detailed study of the following types of tests: anthropometric, strength, cardiovascular, general motor ability, specialized skills, and knowledge tests.
Prerequisite(s): Exercise Science major. Not open to Pre-Human Performance students.
Last Offered: Spring 2019
3 credits
EXS 490 - Organization and Administration in Athletic Training
A comprehensive examination of issues related to the operation and function of athletic training programs. Topics covered include legal liability, certification, and licensing of athletic trainers, insurance management, record keeping, professional development, personnel management, facility design, budgeting, position statements of relevant organizations and current professional trends.
Prerequisite(s): Athletic Training major.
Last Offered: Spring 2019
3 credits

EXS 491 - Internship in Sport Studies
A supervised internship in Sport Studies related setting, such as sports information, sports statistics, sport photography, sports retail, sports merchandising, coaching, and others at the discretion of the internship supervisor/department. Students are required to complete 3 credits of internship and can complete up to 6 credits at one or more internships.
Last Offered: not yet offered
3 credits

EXS 492 - Principles of Sport Studies
Analysis of sport studies with respect to cultural, psychological, and philosophical forces and factors that determine scope and function.
Prerequisite(s): Departmental permission.
Last Offered: Summer 2018
3 credits

EXS 495 - Physical Education (Secondary School)
Practices, methods, and materials of teaching physical education in secondary schools. Emphasis is on development of knowledge and skill in teaching selected physical education activities. A prerequisite for student teaching in the secondary school.
Prerequisite(s): Open only to physical education majors who have completed Gate 2 requirements.
Last Offered: Fall 2018
4 credits

EXS 496 - Sport in American Culture
The study of sport in social groups, process, institutions, economics, religion, the black athlete, women, education, and the media.
Last Offered: Summer 2019
3 credits

EXS 497 - Human Performance Practicum
Practical experience in applying human performance methods and procedures in an exercise science environment, complying with each student’s professional interests.
Prerequisite(s): EXS 287, EXS 386, EXS 387, and departmental permission.
Last Offered: Summer 2019
6 credits

EXS 499 - Independent Study
No Description Available
Prerequisite(s): Departmental permission.
Last Offered: Summer 2019
.5 to 3 credits

RSP 315 - Healthcare in the Age of Mass Media
Examines the role that mass media plays in the health of global citizens. Investigations into the way healthcare messages are communicated and understood through traditional and non-traditional media formats. E-health, telemedicine, and medical tourism are examined. Explores the current and emerging issues such as organ donation as a ‘Facebook’ status, television marketing of e-cigarettes, and storytelling as a way to communicate healthcare information.
Prerequisite(s): Respiratory Care major.
Last Offered: Respiratory Care major.
Last Offered: Winter Session 2019
3 credits
RSP 325 - Dimensions of Healthcare Leadership

The study of theories, principles, and skills needed to function in a leadership position. Emphasis is placed on the development of competencies applicable to not only the professional practice of respiratory care, but also as members of the community. Addresses the key issues confronting healthcare leaders today; examines the causes, and develops reasonable solutions to current healthcare challenges.
Prerequisite(s): Respiratory Care major.
Last Offered: Summer 2019
3 credits

RSP 330 - Case Studies in Medical Ethics

Investigation of groundbreaking medical cases that shape the way healthcare is practiced today. Examination of ethical and social issues surrounding the practice of medicine, particularly the relationship between clinician and patient. Emphasis on the role that advancements in medical technology and biomedical innovation play in healthcare decision-making.
Prerequisite(s): Respiratory Care major.
Last Offered: Fall 2018
3 credits

RSP 340 - Principles of Care Coordination in Respiratory Disease Management

Examination of the systems and tools necessary to work successfully with the respiratory disease population. Health models, processes, staffing, training, patient advocacy/engagement, and reporting/reimbursement, with the aim of improving patient outcomes and reducing healthcare costs. Introduction to concepts and principles of pulmonary rehabilitation, and medical home model of care. Exploration of ways to optimize quality of life for chronically ill patients with cardiopulmonary disease through rehabilitation, education, and outpatient management.
Prerequisite(s): Respiratory Care major.
Last Offered: Summer 2019
3 credits

RSP 415 - Healthcare Essentials

Encompasses an introduction to the history, trends, issues, and evolution of the American healthcare system with emphasis on the evolution of the respiratory therapy profession. Contemporary issues in America's healthcare system are addressed to include: the organization and delivery of healthcare, major public health issues, issues related to healthcare disparities, and future directions of the health care system.
Prerequisite(s): Respiratory Care major.
Last Offered: Spring 2019
3 credits

RSP 420 - Neonatal-Pediatric Care

Overview of fetal and neonatal development and physiology of the cardiopulmonary system. Normal and abnormal physiology, diagnostics, and possible treatment including examination of trends and technology utilized for neonatal care is researched. Explores the assessments made by the healthcare team on the newborn and continuing monitoring of neonates with respiratory other difficulties.
Prerequisite(s): Respiratory Care major.
Last Offered: Fall 2017
3 credits

RSP 425 - Respiratory Care Education

Fundamental background in educational theory and practical application skills of educational delivery and evaluation within the construct of the healthcare environment, most notably the respiratory care profession. Course content includes information on designing a lecture or course for the classroom, as an in-service or in a continuing education program. Focus on assessing educational needs, organizing instruction, instructional methods, and education.
Prerequisite(s): Respiratory Care major.
Last Offered: Summer 2019
3 credits
RSP 430 - Advanced Cardiopulmonary Pathophysiology & Diagnostics

Advanced examination of the major body system diseases that affect respiration. Exposure to patient assessment skills as essential to patient diagnosis and treatment. An in depth study of the cardiopulmonary pathophysiology and diagnostic interpretative tools to prepare students to communicate effectively with other members of the critical care interdisciplinary healthcare team. 
Prerequisite(s): Respiratory Care major.
Last Offered: not yet offered 
3 credits

RSP 440 - Evidenced Based Practice & Research in Respiratory Care

Conceptual examination of evidence-based practice and skill acquisition necessary to incorporate evidence and best practices into professional work with the lung disease patient. These include an understanding of research methods and a scientific approach to critical appraisal of research literature. Analysis of strong scientific data to support approaches to respiratory care. Examination of the development of respiratory care practice guidelines. 
Prerequisite(s): Respiratory Care major.
Last Offered: Spring 2019
3 credits

RSP 445 - Respiratory Care Seminar

Designed to allow the student to explore clinical process in an advanced practice area (neonatal critical care, pediatric critical care, adult critical care, pulmonary rehabilitation, pulmonary function laboratory, polysomnography, hyperbaric therapy, respiratory care management or respiratory care education) through the development of clinically-related projects in the areas of quality improvement, healthcare organizational structures and current processes in patient management with the goal of acquiring the skills necessary to conduct and present original research. Students should select a specialty topic that reflects their area of interest. Peer-to-peer teaching is an integral part of this course. 
Prerequisite(s): Respiratory Care major.
Last Offered: Spring 2019
3 credits

RSP 455 - Clinical Practicum I

A concentrated advanced clinical rotation for students in the optional clinical track. Students apply theoretical, conceptual and skill learning with progressive responsibility in caring for a range of pulmonary patients. Specific learning objectives are written by the student in collaboration with program faculty and clinical preceptors. Students create e-portfolios to document their experience and communicate electronically with faculty at regular intervals. 
Prerequisite(s): Respiratory Care major, Clinical track.
Last Offered: Spring 2016
3 credits
RSP 457 - Clinical Practicum II
A concentration experience for students in the optional clinical track in specific clinical rotations (eg. pulmonary function, LTAC, hyperbaric medicine, etc.). Students apply theoretical, conceptual, and skill learning under supervision. Placements based on availability and interest, facilitated by experts in the area. Students continue with their e-portfolios for display on the course learning management system.
Prerequisite(s): Respiratory Care major, Clinical track.
Last Offered: not yet offered
3 credits

SHE 203 - School Health
Current organization, content and practices of school health programs, covering healthful school living, health instruction, and school health services.
Last Offered: Summer 2019
3 credits

SHE 301 - Drug Education
Historical and contemporary aspects of drug consumption: the nature and uses of drugs; motivation for drug use and abuse; responsible drug use; treatment modalities; societal implications. Emphasis on the role of the educator.
Last Offered: Spring 2019
3 credits

SHE 302 - Mental Health Education
Relationship of mental health to the person’s physical, emotional and social well-being. Emphasis is placed on the educator’s relationship to mental health.
Last Offered: Spring 2019
3 credits

SHE 389 - Holistic Health
Development of concepts that assist the individual to understand holistic measures that promote health and prevent illness.
Prerequisite(s): Junior status.
Last Offered: Spring 2019
3 credits

SHE 411 - Health Teaching in Secondary Schools
Competencies essential to the health educator teaching in secondary schools: planning, development, management, evaluation.
Last Offered: Fall 2018
3 credits