# TABLE OF CONTENTS

## I. EXERCISE PHYSIOLOGY PROGRAM

A. Department Faculty ................................................................. 3
B. Department Staff ................................................................. 3
C. Department Mission and Philosophy .......................................... 3
D. EP Program Description .......................................................... 4
E. EP Course Descriptions ......................................................... 7

## II. EP PROGRAM REQUIREMENTS

A. Professional and Technical Standards ......................................... 10
B. Health Requirements: ............................................................. 11
C. CORI Check ........................................................................... 12
D. Honor Code ............................................................................ 12
E. Academic Calendar ............................................................... 12

## III. EP PROGRAM ACADEMIC POLICIES

A. General Degree Requirements .................................................. 13
B. Academic Standing ............................................................... 13
C. Practicum Experience ............................................................ 13
D. Incomplete Grades ............................................................... 14
E. Dismissal .............................................................................. 14
F. Appeal Process ...................................................................... 14
G. Probation ........................................................................... 14
H. Withdrawal / Reinstatement ..................................................... 15
I. Academic Honors .................................................................. 15
J. Grading and Quality Points ....................................................... 16
K. Critical Incident Report .......................................................... 18

## IV. GENERAL INFORMATION

A. Faculty Offices ...................................................................... 19
B. Communication ..................................................................... 19
C. Use of Facilities ..................................................................... 20
D. Laboratory Guidelines .......................................................... 20
E. Counseling Center ............................................................... 21
F. Career Services ..................................................................... 21
G. Computer Laboratory Information .......................................... 21

## V. EXERCISE PHYSIOLOGY CLINICAL PRACTICUM

A. Practicum General Policies ..................................................... 24
B. Emergency Policy .................................................................. 25
C. Practicum Attendance Policy .................................................. 25
D. Other Policies ..................................................................... 26
E. Generic Abilities ................................................................... 27
F. Student Practicum Performance Evaluation Form ....................... 35
G. Introduction to the Student Practicum Performance Evaluation Tool .................................................. 36

## VI. FORMS TO BE SIGNED AND RETURNED

A. Receipt of Student Manual ...................................................... 46
B. Technical Standards / Program Requirements .......................... 47
C. Honor Code Testament .......................................................... 48
D. Emergency Contact Form ....................................................... 49
I. EXERCISE PHYSIOLOGY PROGRAM

A. Department Faculty

Chairperson: Dr. Sean Collins

Professors: Dr. Linda Kahn-D’Angelo, Dr. Susan O’Sullivan

Associate Professors: Dr. Sean Collins, Dr. Gerard Dybel, Dr. Connie Seymour, Dr. Joyce White, Dr. Bruce Young

Assistant Professors: Dr. Danielle Day, Dr. Cynthia Ferrara, Dr. Erika Lewis, Dr. Deirdra Murphy

Clinical Assistant Professor: Dr. Keith Hallbourg

DPT, Director of Clinical Education: Dr. Keith Hallbourg

B. Department Staff

Program Administrator: Ann Bratton

Coordinator of Laboratory Resources: Dale Pevey

C. Department Mission and Philosophy

Mission

The mission of the Department of Physical Therapy is to promote human health and development through:

1. Teaching of theory and practice of exercise physiology and physical therapy in classroom and community-based settings preparing graduates to practice their profession with knowledge, competence, and respect for human well-being.
2. Scholarship in the discovery, application and dissemination of knowledge in exercise physiology, physical therapy, and health.
3. Public service in partnership with local, regional, and national organizations advancing prevention-based strategies in health promotion.

Philosophy

The faculty believes that individuals have intrinsic worth and a right to optimal health and function. Function is defined as those activities identified by an individual as essential to support physical, social, and psychological well being and to create a personal sense of meaningful living.

The faculty believes that students are active participants in the educational process. As potential professionals, the relationship between students and faculty is one in which there is mutual respect, understanding, and interchange of ideas. The faculty, as experienced professionals, serve as resource persons, mentors, and role models for the developing professional. The faculty view themselves as facilitators of the learning process. Students are expected to demonstrate commitment to learning as the
basis for continued personal and professional growth, effective interpersonal and communication skills, problem-solving and critical thinking skills, and appropriate professional conduct. Effective use of time and resources, feedback, and stress management strategies are also important components of the behaviors of the successful student.

D. EP Program Description

The goal of the Department of Physical Therapy is to prepare individuals in the undergraduate Exercise Physiology (EP) program. Exercise physiology is the study of acute and chronic physiological responses and adaptations resulting from exercise and physical activity.

The undergraduate curriculum is broad-based and includes courses in liberal arts, basic sciences (anatomy & physiology, chemistry, physics, biochemistry), and professional courses (exercise physiology, kinesiology, exercise prescription/program planning). The EP courses are comprehensive and cumulative and prepare students for the practicum experience in the senior year. Students can be assigned to one of a variety of settings, a cardiac or pulmonary rehabilitation setting or a private or corporate fitness center for a semester. While working in the practicum setting, students attend a weekly seminar to discuss issues which arise during the practicum, strength and conditioning experience, or research industry-related setting.

There are numerous career opportunities for graduates of the exercise physiology program. Graduates can work as exercise practitioners (group exercise instructor, personal trainer, strength and conditioning coach) in private or corporate fitness settings or with sport teams. Clients present with varying fitness levels, medical concerns, and ages. The focus is on improving or maintaining health, fitness, or performance. Graduates can work in sports medicine (the field of medicine dealing with injuries sustained in athletic endeavors and/or illnesses impacting sport performance). Practice settings may include sports medicine clinics or sports training facilities. Graduates can also work in cardiopulmonary rehabilitation settings, including hospitals, outpatient clinics, and medically supervised fitness centers. Patients/clients present with cardiac and pulmonary conditions, and may be recovering from surgery or acute hospitalization. There are no professional licensing requirements at the present time. There is a certification process for health/fitness instructors and clinical rehabilitation practitioners by the American College of Sports Medicine (ACSM) and certification in strength and conditioning by the National Strength and Conditioning Association (NSCA).

Students can also pursue graduate study in Exercise Physiology. Advanced degrees in EP (Master of Science, doctoral degree) prepare individuals for positions as exercise specialists (ACSM certification, NSCA certification,) exercise program directors or in the clinical rehabilitation track. Graduate degrees in EP also prepare individuals for research or teaching positions. A Ph.D. is typically required for teaching or research positions in higher education. Students are also exceptionally well-qualified to enter graduate programs in other health professions including nursing, occupational therapy, sports nutrition, sports performance, and strength and conditioning.

Graduates of the exercise physiology program meet all the necessary requirements for application to the Doctorate in Physical Therapy Program (DPT) at the University of Massachusetts Lowell. The DPT Program is a fully accredited, 3 year program designed to prepare entry-level practitioners in physical therapy. It includes 96 credits of coursework and 35 weeks of clinical education experience. Applications to the DPT program at UML are competitive. A percentage of available spots in the DPT program at UML are reserved for qualified graduates from the EP program.

Requirements for admission to the graduate program in physical therapy include a Bachelor’s degree from an accredited university or college, an undergraduate grade point average (GPA) of 3.0 or better, a GPA in science courses of 3.0 or better, Graduate Record Examination (GRE), documented personal experience in a physical therapy setting, and three letters of recommendation.
Highly qualified UML EP students may be invited to apply to the DPT program following the junior year (minimum overall GPA and science GPA of 3.5 required) through the Expedited Admissions Program. Expedited students must complete their Bachelor’s degree in EP while maintaining their 3.5 GPAs. If invited, these students are exempt from the UML graduate application fee and the GRE requirement.

Requirements for other graduate (including DPT) programs are generally similar, though some differences may exist from program to program. Students are encouraged to explore graduate admission requirements for any program they are considering. Faculty advisors guide students interested in whatever career they may be considering throughout their four undergraduate years and in the successful completion of prerequisites and the application process.
# E. EP Curriculum Sheet

**Course of Study for Exercise Physiology**  
**Class of 2011, 2012**  
Revised 3/25/09

### Freshman Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
<td>35-101 Human Anat &amp; Phys I <em>(Sci &amp; Tech)</em></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>35-103 Human Anat &amp; Phys Lab I <em>(Sci &amp; Tech)</em></td>
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<tr>
<td></td>
<td>42-101 College Writing I</td>
<td>3</td>
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<tr>
<td></td>
<td>47-101 General Psychology <em>(Social Sci)</em></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>92-285 Intro to Statistics <em>(Math)</em></td>
<td>3</td>
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<tr>
<td></td>
<td>**Elective <em>(Arts &amp; Humanities)</em></td>
<td>3</td>
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<tr>
<td><strong>Spring Semester</strong></td>
<td>35-102 Human Anat &amp; Phys II <em>(Sci &amp; Tech)</em></td>
<td>3</td>
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<tr>
<td></td>
<td>35-104 Human Anat &amp; Phys Lab II <em>(Sci &amp; Tech)</em></td>
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<tr>
<td></td>
<td>42-102 College Writing II</td>
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<td></td>
<td>31-201 Community Health &amp; Environment</td>
<td>3</td>
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<td></td>
<td>47-260 Child &amp; Adolescent Develop <em>(Social Sci)</em></td>
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<td>**Elective <em>(Arts &amp; Humanities)</em></td>
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### Sophomore Year

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<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
<td>35-251 Physiological Chemistry I*</td>
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<tr>
<td></td>
<td>35-253 Physiological Chemistry Lab I*</td>
<td>1</td>
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<tr>
<td></td>
<td>95-103 General Physics I <em>(Sci &amp; Tech)</em></td>
<td>3</td>
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<tr>
<td></td>
<td>96-103 General Exper Physics I <em>(Sci &amp; Tech)</em></td>
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<tr>
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<td>35-206 Human Nutrition</td>
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<td>**Elective <em>(Arts &amp; Humanities)</em></td>
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<tr>
<td><strong>Spring Semester</strong></td>
<td>35-252 Physiological Chemistry II*</td>
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<tr>
<td></td>
<td>35-254 Physiological Chemistry Lab II*</td>
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<tr>
<td></td>
<td>95-104 General Physics II <em>(Sci &amp; Tech)</em></td>
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<tr>
<td></td>
<td>96-104 General Exper Physics II <em>(Sci &amp; Tech)</em></td>
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<td></td>
<td>38-202 Intro. to Exercise Physiology</td>
<td>3</td>
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<td>47-272 Abnormal Psychology</td>
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### Junior Year

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<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
<td>38-305 Exercise Physiology I</td>
<td>4</td>
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<td>38-307 Exercise Physiology Lab I</td>
<td>1</td>
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<td></td>
<td>38-306 Intro. to Gerontology</td>
<td>3</td>
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<td></td>
<td>38-301 EP Junior Seminar</td>
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<td>**Elective <em>(Arts &amp; Humanities)</em></td>
<td>3</td>
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<tr>
<td><strong>Spring Semester</strong></td>
<td>38-406 Exercise Physiology II</td>
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<td>38-408 Exercise Physiology Lab II</td>
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<td>38-363 Introduction to Data Analysis</td>
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<td>38-301 EP Junior Seminar</td>
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<td>**Elective <em>(Arts &amp; Humanities)</em></td>
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<td><strong>Free Elective</strong></td>
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### Senior Year

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<th>Course</th>
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<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
<td>38-356 Pharmacology</td>
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<tr>
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<td>38-418 EP Senior Seminar</td>
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<td></td>
<td>38-417 Research Methods in Exercise Phys.</td>
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<td>38-422 Exercise Prescription &amp; Programming</td>
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<tr>
<td></td>
<td><strong>Clinical Practicum (1/2 the class)</strong></td>
<td>4</td>
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<tr>
<td><strong>Spring Semester</strong></td>
<td>38-420 Advanced Study in EP*</td>
<td>3</td>
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<td><strong>Free Elective</strong></td>
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<tr>
<td><strong>Fall Semester</strong></td>
<td>38-356 Pharmacology</td>
<td>3</td>
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<td></td>
<td>38-417 Research Methods in Exercise Phys.</td>
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<tr>
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<td>38-422 Exercise Prescription &amp; Programming</td>
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<td></td>
<td><strong>Clinical Practicum (1/2 the class)</strong></td>
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<td><strong>Spring Semester</strong></td>
<td>38-418 Seminar</td>
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<td>38-412 Clinical Practicum (1/2 the class)</td>
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Total Credits = 121

*Physiological Chemistry can be substituted with General Chemistry sequence with labs*

*Advanced Study in EP can be substituted with Directed Study in Health Promotion*
F. EP Course Descriptions

38.101 EP Freshman Seminar Credits: 1
The Freshman Seminar will introduce new students to UMass Lowell, the School of Health and Environment, and the Program in Exercise Physiology. Students will participate in weekly activities to improve study skills, communication skills, and problem solving. They will also learn important information about careers in Exercise Physiology and health-related fields.

38.202 Intro to Exercise Physiology Credits: 3
This course will provide a broad overview of the various fields and career options within Exercise Physiology. Students will have the opportunity to network and interview guest speakers from all different careers, and also to explore the various environments in which Exercise Physiologist work by way of site visits to hospitals, clinics, etc. Strategies for success in the UMass-Lowell EP curriculum and guidance on choosing and applying to graduate schools will also be addressed.

38.301 EP Junior Seminar Credits: 1
The Junior Seminar, offered during the Spring semester to Exercise Physiology majors, will orient students to information required for their practicum experience during their senior year.

38.305 Exercise Physiology I Lect Credits: 4
This first course of a two-course sequence will examine the short and long term effects of exercise on the oxygen transport systems including bioenergics. Clinical components of the course address diseases of and rehabilitation for cardiovascular, pulmonary and metabolic systems. The material is structured as an integrative physiology course. As such, you will be required to assimilate material previously learned about human anatomy, physiology, chemistry and physics with material learned in this course to form an integrated understanding of the responses and adaptations of the human system to exercise. Exercise physiology bridges the gap between basic biologic science and professional fields of application, such as coaching, training, allied health and rehabilitation. This course will provide a solid background in the science, theory and concepts so that you will have a concrete basis for the application of exercise physiology in a variety of fields.
Corequisite: 38.307 Exercise Physiology I Lab
Prerequisites: junior year status EP; Anatomy and Physiology I & II with Labs; Physiological Chemistry I & II with labs; Physics I & II with Labs; Intro to EP.

38.307 Exercise Physiology I Lab Credits: 1
This is the first of a two-part series of laboratory courses that is taken concurrently with Exercise Physiology I (38.305). This course is designed to offer students the opportunity to integrate the concepts and principles of exercise physiology discussed in lecture with practical laboratory experiences. Students will be expected to develop practical skills in the laboratory consistent with current standards of clinical practice, learn to administer exercise tolerance tests, interpret and present exercise test data, and develop appropriate exercise prescriptions for developing cardiorespiratory fitness in apparently healthy, athletic, and clinical populations.
Corequisite: 38.307 Exercise Physiology I Lect
Prerequisites: junior year status EP; Anatomy and Physiology I & II with Labs; Physiological Chemistry I & II with labs; Physics I & II with Labs; Intro to EP.

38.315 Kinesiology Lect Credits: 3
In Kinesiology, the study of Newtonian Mechanics, Anatomy, Neuromuscular Physiology and Motor Control is combined to teach the analysis of human movement. The major focus of the course is the qualitative analysis of human movement and its wide range of practical applications. Topics also include quantitative analysis techniques, body mechanics, posture gait evaluation, and sport or activity specific movement patterns with a focus of identifying and interpreting causes of less than optimal movement patterns. Students are given the freedom to explore areas of their interest within the goals and objectives of the course, however with this freedom comes a greater responsibility for the critical thinking and learning required to be successful in the analysis of human movement.
Corequisite: 38.317 Kinesiology Lab
Prerequisites: junior year status EP; Anatomy and Physiology I & II with Labs; Physiological Chemistry I & II with labs; Physics I & II with Labs, Intro to EP.

38.317 Kinesiology Lab Credits: 1
This course should be taken concurrently with 38.315.101. This course is designed to practically apply topics discussed in kinesiology lecture. Students are given the opportunity to engage in various activities that will allow them to observe and analyze the numerous factors involved in human motion and the impact of those factors on human performance. Students are given the opportunity and encouraged to explore areas of personal interest within the goals and objective of the course.
Corequisite: 38.315 Kinesiology Lecture
Prerequisites: junior year status EP; Anatomy and Physiology I & II with Labs; Physiological Chemistry I & II with labs; Physics I & II with Labs; Intro to EP.

38.356 Pharmacology Credits: 3
This course provides an introduction to the chemistry, biochemistry, and physiological actions of various pharmaceuticals. Fundamental concepts will be stressed and will include a discussion of drug receptors, drug receptor interactions, pharmacokinetics, enzyme induction, drug metabolism, drug safety and effectiveness and idiosyncratic reactions. Several major groups of drugs will be studied. Articles from current literature will be discussed.
Prerequisites: junior year status EP; Anatomy and Physiology I & II with Labs; Physiological Chemistry I & II with labs; Physics I & II with Labs; Intro to EP.

38.406 Exercise Physiology II Credits: 4
This course provides a continuation of Exercise Physiology I and deals with the short and long effects of exercise on the skeletal and neuromuscular systems. This portion of the sequence also provides an integration of the physiological systems when considering the effect of exercise.
Co-requisite: 38.408 Exercise Physiology II Lab

38.408 Exercise Physiology II Lab Credits: 1
This course is designed to provide the student with hands on experience in a variety of laboratory techniques and field techniques for the assessment of human performance.
Corequisite: 38.406 Exercise Physiology I
Prerequisites: 38.305 EP I and 38.307 EP I Lab, 38.315 Kinesiology and 38.317 Kinesiology Lab

38.412 Practicum I & II Credits: 4
This course is an off-campus experience in either a cardiac/pulmonary rehab clinical facility or in a fitness setting. Students experience practical applications of the concepts and theories learned in the classroom settings. Strength and conditioning, research or industry related setting, or other setting appropriate to the particular student’s interests.
Co-requisite: 38.418 Senior Seminar
Prerequisites: All 2nd and 3rd year course work in the exercise physiology major.

38.417 Research Methods In EP Credits: 3
This course involves an in-depth study of current research methods, topics with specific applications to the field of Exercise Physiology, and an introduction to the best evidence practice The content includes the sources of data acquisition, research design, testing procedures, and treatment of data.
Prerequisites: All 2nd and 3rd year course work in the exercise physiology major.

38.418 Senior Seminar Exercise Physiology Credits: 3
This course is specifically designed to enhance the practicum experience in the senior year.
Co-requisite: 38.412 Clinical Practicum I & II
Prerequisites: All 2nd and 3rd year course work in the exercise physiology major.
Advanced Study in Exercise Physiology Credits: 3
This course is designed as the final course required of all exercise physiology majors. Students summate and integrate classroom and clinical experiences in Exercise Physiology in the preparation of a final project. Course requirements are designed to encourage student learning and interest around individual specific career plans or focus. The culmination of the course is production of a major project and a public presentation through research and integration of oral, written and visual projects throughout the semester. Class meetings focus on assisting students in establishing a professional identity while individual conferences routinely discuss project planning, progress and problems. The course focus is to widen your area of expertise and broaden your career choices.
Prerequisites: All 2nd and 3rd year course work in the exercise physiology major.

Directed Study in Health Promotion Credits: 3
Directed study offers student (by invitation / acceptance by a Faculty member in the Dept of Physical Therapy) the opportunity to engage in a directed research project under the supervision of a department member. Working closely with the instructor, students define and investigate a research topic in an area of special interest and present the results of their investigation in a significant paper. Seniors only.

Exercise Prescription & Programming Credits: 3
This course provides an essential foundation for exercise prescription and programming, and sound educational practice. Factors that impede or enhance exercise compliance and progress are explored. Clinical teaching skills, safety, and professional behavior are also addressed.
Prerequisites: All 2nd and 3rd year course work in the exercise physiology major.
II. EP PROGRAM REQUIREMENTS

A. Professional and Technical Standards

One goal of the faculty of the Department of Physical Therapy is to prepare competent, entry-level practitioners in exercise physiology. All students are expected to demonstrate essential skills necessary to work accurately and safely with peers, faculty, staff, and patients/clients in a variety of settings including classroom, laboratory, practice settings (fitness center, cardiopulmonary rehabilitation, strength and conditioning, research or industry sites).

The faculty have the responsibility to prepare practitioners who are well-educated and who possess personal and professional skills in observation and examination, communication, motor function, critical thinking, and behavioral/social function. The faculty recognizes that reasonable accommodations or adjustments may be necessary as required by the Americans with Disabilities Act.

Students in the Exercise Physiology program must demonstrate certain minimum skills, including:

1. OBSERVATIONAL AND EXAMINATION SKILLS
   a. Observe demonstrations and participate in classroom and laboratory experiences.
   b. Obtain an appropriate health/fitness/medical history from the patient/client.
   c. Accurately examine body systems and determine vision, hearing, speech and non-verbal communication, cognition, strength, flexibility, and functional capacities of patients/clients.
   d. Accurately examine cardiovascular fitness, including vital signs, blood pressure, heart sounds, breathing patterns, and exercise endurance.
   e. Reliably read all equipment monitors and dials.

2. COMMUNICATION SKILLS
   a. Communicate with others in a respectful, polite and confident manner.
   b. Demonstrate understanding of English, including speaking, reading, and writing using correct grammar, accurate spelling, and expression.
   c. Accurately complete all written assignments and on time.
   d. Maintain accurate documentation in patient/client records.
   e. Demonstrate effective use of therapeutic communication such as maintaining eye contact, attending, clarifying, coaching, facilitating, and touching.
   f. Demonstrate respect of personal space of patients/clients and others.
   g. Maintain confidentiality.
   h. Demonstrate appropriate non-verbal communication.
   i. Translate complex information simply and clearly.
   j. Use communication technology effectively.

3. MOTOR SKILLS
   a. Accurately use manual techniques to assess pulses, skin condition, muscle, joint and limb movement.
   b. Manipulate with precision dials, knobs and other parts of equipment used in the practice setting.
   c. Negotiate level surfaces, stairs, and ramps as necessary to assist patients/clients appropriately.
   d. Perform a variety of laboratory examinations and procedures which require changing position, sitting, standing, squatting, kneeling, and maintaining balance.
   e. Respond quickly and effectively to sudden or unexpected movements of patients/clients.
   f. Perform basic Cardiopulmonary Resuscitation (C.P.R.), infant through adult.
   g. Demonstrate the ability to sustain performance in the practice setting for an 8-10 hour workday.

4. CRITICAL THINKING
a. Demonstrate the ability to recall knowledge, comprehend and interpret, apply, analyze, synthesize, and evaluate information obtained during didactic, laboratory, and practice setting experiences.
b. Demonstrate problem-solving skills necessary for identifying/prioritizing problems, and developing appropriate solutions/plans for patient/client problems.
c. Demonstrate the ability to evaluate and integrate scientific research.
d. Ask for appropriate help when necessary.

5. **BEHAVIORAL AND SOCIAL SKILLS**

a. Demonstrate appropriate interpersonal skill evidenced by mature, sensitive, and effective professional interactions.
b. Demonstrate a positive attitude (motivation) toward learning.
c. Demonstrate attributes of honesty, integrity, compassion, courage, enthusiasm, cheerfulness, empathy, and continuous regard for others.
d. Demonstrate emotional well-being necessary for exercising sound judgment.
e. Demonstrate appropriate time management, dependability, and punctuality.
f. Critique own performance, accept responsibility for one’s own actions, and follow through on commitments and assignments.
g. Actively seek feedback/help and appropriately utilize constructive feedback.
h. Demonstrate organizational skills, completing all professional responsibilities and assignments in a timely manner.
i. Adapt to ever changing environments, demonstrating flexibility, and learning in the face of the uncertainties and stresses inherent in the educational and practice settings.
j. Respect cultural and personal differences of others, including being non-judgmental.
k. Delegate responsibility appropriately, and function as a member of a team.
l. Maintain appropriate professional distance with patients/clients.
m. Maintain appropriate personal hygiene and adhere to dress codes mandated by the school and practice setting.

**B. Health Requirements:**

1. All students in the Exercise Physiology program must:
   a. Prior to entry into the Exercise Physiology I course in junior year, provide evidence of a current physical exam, signed by a physician or nurse practitioner, indicating satisfactory general health, and in particular, clearance to participate in moderate-to-vigorous physical activity.
b. Prior to entry into the Practicum in the senior year (fall or spring), provide evidence of a current physical exam indicating satisfactory general health and proof of immunization for measles, mumps, rubella, and Hepatitis B. In addition, students must have had a tetanus shot within 10 years, be free of tuberculosis, and have taken a test for color blindness.
c. Any other pertinent health information/needs must be communicated to the department faculty in a timely manner.
d. Some clinical facilities require that students have had the chicken pox or its vaccination.

2. **CPR CERTIFICATION (INFANT THROUGH ADULT)**

   Evidence of current CPR Certification (infant through adult) is required prior to entry in the senior year.
C. CORI Check

A criminal background check (CORI check) is required before starting the Clinical Practicum.

Massachusetts passed the Criminal Offender Record Information (CORI) act in 1996. According to the CORI Act, Massachusetts General Laws Chapter 7, sections 167-178, agencies have the right to require a criminal record check on any student affiliating at their institution. Education practicum experiences and some state licensing boards require a CORI check.

Failure to pass a CORI check may jeopardize continued matriculation in the program, practicum placements, eventual licensure and/or certification. Final determination of a failed CORI check will be made by the department’s Professional Review Committee. Processing of the CORI may take up to six weeks. Therefore, it is imperative that the paperwork be completed as soon as possible.

D. Honor Code

1. Students in the Exercise Physiology Program are expected to adhere to the Honor Code. Students are expected to maintain the highest ethical behavior both in and out of the classroom. Cheating or plagiarism is strictly prohibited. Should students witness either behavior, they are required by the Code to report infractions.

2. Students found in violation of the Honor Code will be dismissed from the program.

E. Academic Calendar

1. Be aware of the University’s academic calendar and meet its deadlines

2. The traditional K-12 February vacation is NOT part of our calendar. Students are expected to be in class and at practicum.
III. EP PROGRAM ACADEMIC POLICIES

A. General Degree Requirements

Students are required to complete all curriculum requirements of the Exercise Physiology major (a minimum of 120 credits) and all University general education requirements. No more than 30 credits may be from Course Equivalency Examinations (CLEP). Transfer credits will not be accepted once the student has 60 credits at the university. Students may not take and transfer in credits from a 2 year college once the student has achieved junior status.

B. Academic Standing

Grade point averages for all students in the Exercise Physiology program are reviewed at the end of the freshman year and at the end of each semester thereafter.

Students in the Exercise Physiology major must maintain:
- a minimum 2.7 overall GPA
- a minimum 2.7 cumulative average in required science courses (A & P I/II; Physics I/II; Chem. I/II; and all labs)
- a minimum 2.7 semester GPA
- a minimum 2.7 average in EP major courses and may not get less than a C in any course

Students who enter the University as a freshman or transfer to the University with fewer than 60 credits are permitted a maximum of 15 semester credits for course repetitions/deletions to remove grades of C- or less from their cumulative GPA.

Students who fail to satisfy these academic requirements will be dismissed from the program with the right to appeal.

The Department Professional Review Committee meets to decide whether to recommend loss of degree candidacy (dismissal from the program) or continuance in the program with probation.

Students must complete A&P I and II with labs before becoming a sophomore in EP or must transfer to Undeclared Health.

Students must successfully complete all science prerequisites prior to entry into the junior year. (Anatomy & Physiology I & II; Physiological Chemistry I & II, Physics I & II with labs.)

C. Practicum Experience

Grades for EP Practicum experience are given as either Satisfactory (S) / pass or Unsatisfactory (U) / fail. If a student receives an Unsatisfactory grade, he/she will be dismissed from the program with the right to appeal.

Students may not proceed to their Practicum Experience until all fr/soph/jr coursework is satisfactorily completed. Students must also complete specific health pre-requisites (as stated in the Professional and Technical Standards and Program Requirements).
D. Incomplete Grades

An incomplete grade may be granted when a student is temporarily unable to complete EP course requirements due to illness or unusual personal circumstances. An incomplete grade must be cleared no later than the end of the next semester of enrollment as stated in the University’s official academic calendar. If the incomplete grade is received in a program course that is a prerequisite to the following semester’s course, the incomplete grade must be cleared prior to the commencement of the following course.

E. Dismissal

1. Students will be dismissed from the program if he/she fails to meet the academic criteria stated above or receives an Unsatisfactory grade (U) on a Practicum Experience.

2. All students in the School of Health and Environment must demonstrate a level of professionalism and a state of emotional and physical health that will enable them to provide safe, competent practice. Students may be dismissed for non-academic reasons:
   - Improper conduct or criminal behavior
   - Failure to meet Professional or Technical Standards
   - Honor Code violation: academic dishonesty, cheating, plagiarism
   - Emotional and/or physical health issues
   - Critical Incident Reports

   A student dismissed from the major has the right to appeal for reinstatement in the form of a written petition to the Department’s Professional Review Committee.

   Students dropped from the major may transfer to other majors in the School or University, depending on a favorable decision by the department chair of that major. All intra-university transfers are on a space-available basis only.

   Students may transfer into Undeclared Health in the School of Health and Environment during the first two years only. Transfer must be approved by the Director of Undergraduate Education. Students who move into UH are not placed on probation. Return to the EP major will be based upon successful completion of the school’s and EP program prerequisites and requirements and on a space-available basis.

F. Appeal Process

The formal appeal, in writing and containing the pertinent facts, should be presented by the student to the Chairperson of the Department no later than the date specified in the letter of notification. The Professional Review Committee shall convene and discuss the appeal. The appeal must include: (1) an explanation of the reasons for the unsatisfactory performance and (2) an indication of what you will change in order to succeed in the program. If reinstatement is recommended, the student will be placed on probation. Terms of the probation will be specified in a letter to the student.

An individual dismissed for non-academic reasons may be required to present statements documenting physical and/or mental health from appropriate licensed health care providers. On the basis of a review of such statements, the Professional Review Committee will determine if the individual will be reinstated or denied continuance in the program.

If the decision of the Department committee is not satisfactory to the student, the student may forward the appeal to the college dean within two weeks of the decision of the Department committee.
G. Probation

Students whose appeal is successful will be readmitted to the program on probation. Students placed on probation must meet all the conditions of their probation including maintaining all SHE and EP program criteria for the remainder of the time in the major. **Students may be placed on probation only once.** Failure to meet the terms of the probation will result in dismissal from the program with no further appeal possible.

H. Withdrawal / Reinstatement

Students are expected to complete the degree in four consecutive years. In extenuating circumstances, the student can petition the Department Professional Review Committee for consideration of a withdrawal. If the withdrawal is approved, return to the program (reinstatement) is on a space-available basis and by clearing any program deficiencies that need to be made up.

I. Academic Honors

**University Honors:** The University recognizes baccalaureate graduates who have attained exceptional scholastic distinction. To be eligible for such recognition a student must achieve a minimum grade point average of 3.0 for all courses completed at the University and must have earned a minimum of 60 semester credits at the University as upper class students. Three levels of distinction are noted at commencement: *summa cum laude; 3.85, magna cum laude; 3.5, and cum laude; 3.25.* University honors are officially entered on the permanent record of the students.

**Honors Program:** Undergraduate students enrolled in the University Honors Program who complete all program requirements graduate as Commonwealth Honors Program Scholars.

**Dean’s List:** To be eligible for the Dean’s List:

1. Undergraduate students must receive a semester grade point average (GPA) of 3.25 or higher
2. Undergraduate students must take a minimum of 12 credits with grades of either A, A-, B+, B, B-, C+ or C for the semester. Grades of Pass/Fail or Satisfactory/Unsatisfactory do not count toward the 12 credits.
3. Undergraduate students cannot receive grades of incomplete (INC) for any course.
4. Undergraduate students cannot receive a grade lower that C for any course.
5. Students may not use grade deletions to improve their semester GPA and qualify for the Dean’s List.

**The Dean’s Award** is given to the graduating senior with the highest GPA in the Exercise Physiology program.

**Department Honors:** The Department recognizes baccalaureate graduates who have attained scholastic and clinical distinction. The **Exercise Physiology Award of Excellence** is given to the graduating senior who demonstrates exceptional academic and practicum performance. **Exercise Physiology Practicum Excellence Awards** are given to those graduating seniors who demonstrate excellence during their senior Practicum experience.
J. Grading and Quality Points

**GRADING**

A = 4.0
A- = 3.7
B+ = 3.3
B = 3.0
B- = 2.7
C+ = 2.3
C = 2.0
C- = 1.7
D+ = 1.3
D = 1.0
D- = n/a
F = 0.0

To determine your GPA, divide the quality points by the # of credits.

Example:  
A & P I A 3 cr.  4.0  X  3  =  12  
A & P I Lab B 1/4 cr.  3.0  X  1  =  3/4  

\[
\frac{15}{4} \text{ quality points} \quad \frac{3}{15} \text{ credits} = 3.75 \text{ GPA}
\]
Grading and Quality Points Continued

Student                                                                 Class of:__________________________

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EP ADVISEES: SCIENCE GPAs

Note: A 2.7 “Science GPA” to stay in the EP major means: A & P I/II; Phy. Chem. I/II; and Physics I/II with all labs. You must also maintain a 2.7 overall to graduate.

The other courses listed (EP and Kinesiology) are those additional science pre-requisites you will need to apply to UML’s PT graduate program.
- To apply, you need at least a 3.0 Science GPA and 3.0 overall GPA
- To apply for expedited admission, you need at least a 3.5 Science GPA and 3.5 overall GPA
- You may use either EP I/lab or EP II/lab

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*The chemistry sequence can be satisfied by a year of chemistry with labs.

Semester Calculations:  

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K. Critical Incident Report

ACADEMIC CRITICAL INCIDENT REPORT

Student’s Name:

Evaluator/Observer:

Date:

Description & Date of Incident:

Generic Abilities:

Actions & Strategies Taken:

Student Comments:

Student’s Signature ___________________________________ Date ___________________

Evaluator’s Signature ___________________________________ Date ___________________

cc: Department Chair
    Academic Folder
    Student
    Advisor
IV. GENERAL INFORMATION

A. Faculty Offices

To contact, either e-mail or leave a voicemail. Faculty office hours are posted each semester.

The following faculty have offices in Weed Hall:

Dr. Sean Collins, Department Chairperson, Associate Professor, Weed 202
Sean_Collins@uml.edu
978-934-4375

Dr. Keith Hallbourg, DPT, Director of Clinical Education, Weed 102
Keith_Hallbourg@uml.edu
978-934-4402

Dr. Linda Kahn-D'Angelo, Professor, Weed 214
Linda_Kahn@uml.edu
978-934-4411

Dr. Susan O'Sullivan, Professor, Weed 220
Susan.OSullivan@uml.edu
978-934-4412

Dr. Connie Seymour, Associate Professor, Weed 224
Connie_Seymour@uml.edu
978-934-4434

Dr. Joyce White, Associate Professor, Weed 208
Joyce_White@uml.edu
978-934-4414

Dr. Bruce Young, Associate Professor, Weed 305B
Bruce_Young@uml.edu
978-934-4413

The following faculty have offices in O'Leary Library:

Dr. Danielle Day, Assistant Professor, O’Leary 309
Danielle_Day@uml.edu
978-934-4483

Dr. Gerald Dybel, Associate Professor, O’Leary 313B
Gerald_Dybel@uml.edu
978-934-4410

Dr. Cynthia Ferrara, Associate Professor, O’Leary 319
Cynthia_Ferrara@uml.edu
978-934-4399

Dr. Erika Lewis, Assistant Professor, O’Leary 311
Erika_Lewis@uml.edu
978-934-4405

Dr. Deirdra Murphy, Assistant Professor, O’Leary 310
Deirdra_Murphy@uml.edu
978-934-4533

Department Staff
Ann Bratton, Program Administrator, O’Leary 312
Ann_Bratton@uml.edu
978-934-3114

Dale Pevey, Coordinator of Laboratory Resources, Weed 200
Dale_Pevey@uml.edu
978-934-4491
B. Communication

Students and faculty will maintain unconditional positive regard for each other in all interactions. Students can make appointments with faculty and the ACCE to discuss issues confidentially. Students will resolve conflict in an appropriate fashion by discussing the situation first with the faculty member involved, with follow-up as needed to the Department Chair. Students are expected to be prompt and on time for class in appropriate attire. No cell phone will be used in class or throughout practicum experience. Students are expected to notify faculty and the ACCE of absences in a timely fashion as well as appropriate supervisors while on practicum.

Students must use their UMass Lowell email accounts and address for communication with faculty and the ACCE. Students are expected to check email periodically for information and updates. Students are expected to provide the Department with current postal address, phone number, and email addresses as well as prompt notification should a change occur.

EP Bulletin Board/Web Pages

In the corridor opposite Weed 316, there is a bulletin board for announcements and items of interest. Additionally, individual program courses using a web page may have electronic email, discussion boards and real-time chat capabilities to facilitate communication between the faculty member and the students enrolled in the course.

C. Use of Facilities

Classrooms are in Weed Hall and should be maintained in good condition. Smoking is not permitted in Weed Hall. Laboratory hours (including open hours) are posted outside each room. Keys may be obtained (1) from the Coordinator of the School of Health and Environment Laboratory Resources, Mr. Dale Pevey (Room 200, 7:30-4:00, M-F), or (2) at the College Service Center, (Weed 103, 8:30-5:00, M-F).

D. Laboratory Guidelines

Students should be appropriately dressed for lab activity as a professional atmosphere will be maintained in the lab. Dignity of subjects should be respected, and comfort and safety always provided.

Students are expected to:
1. Take personal responsibility for the care and maintenance of labs and all equipment.
2. Leave sinks and surrounding areas as clean as possible.
3. Return equipment and furniture to appropriate places after each use.
4. Get written permission from an instructor to remove any equipment or supplies from the building.
5. Tape a “Do Not Use” note on any equipment that appears broken or is not functioning properly and submit written information concerning the problem to an instructor.
6. Place linen in the appropriate container when soiled.
7. Not wear shoes on any equipment which contacts human skin (i.e., plinths, exercise mats, tilt table).

Laboratory Safety Procedures

1. Hands should be washed prior to and at the completion of laboratory work and before touching each new subject.
2. The room is to be occupied by a minimum of two students at all times.
3. Students are not to use equipment without prior authorization and instruction of a faculty member.
E. Counseling Center

The UML Counseling Center offers individual and group counseling to assist students who have concerns in vocational, personal, and educational areas. Counseling services are available free of charge and with the complete assurance that any concern discussed will be held in strictest confidence. The center is located on the 3rd floor of the McGauvran Student Union Building, South Campus, (978-934-4331).

F. Career Services

The Career Services Office provides assistance with dissemination of vocational information and career interviewing services. A basic resource library in the office provides occupational information, industrial literature, graduate school information, and self-help career aids. Students can establish and maintain an up-to-date file of personal records, a resume, letters of recommendation, and other supportive documentation. Copies of student credentials are sent to prospective employers upon their request or at the request of the student.

Activities conducted by Career Services include the following: letter writing clinics, resume writing clinics, salary negotiations, a travel-business etiquette success seminar, full and part time job placement, interviewing practice, graduate placement, and guest speaking services. Students are encouraged to avail themselves of these services early on in their undergraduate career. These services are also available to alumni. The office is located in Southwick Hall, Room 200 (978-934-2355) and on the web at http://www.uml.edu/student-services/career_services/default.html.

G. Computer Laboratory Information

The School of Health and Environment has three computer laboratories available for EP students. These labs are open between the hours of 8:30 AM – 9PM Monday through Thursday, and 8:30 AM – 6 PM on Fridays. The labs are not open on weekends, holidays, or weather related closings. A student must have a valid ID card to use the computer lab resources.

These labs are also used for classes throughout the school year. Any scheduled class will take precedence over an “open” lab period. All class use of the labs will be posted outside the door of each lab.

1. Weed 212

This lab consists of 24 Dell workstations and one teaching station. There is also a print station consisting of one Dell computer and a HP LaserJet 4200 Series Printer in the front of the room. These machines contain the standard Microsoft Office Suite as well as Adobe Acrobat, SPSS, and the nursing program specific software such as NCLEX 3550 and the MediSims. They also contain the browsers and other software needed to complete homework and online class work. In addition, this room contains the ArcGIS software.
2. **Weed 216**
   This lab consists of 17 Dell workstations and one teaching station. There is also a print station consisting of one Dell computer and a HP LaserJet 4200 Series Printer in the front of the room. These machines contain the standard Microsoft Office Suite as well as Adobe Acrobat, SPSS, and the nursing program specific software such as NCLEX 3550 and the MediSims. They also contain the browsers and other software need to complete home work and online class work.

3. **Kitson 200B**
   This lab consists of 6 Dell workstations and is primarily for the use of Work Environment students. These machines contain the standard Microsoft Office Suite as well as Adobe Acrobat, SPSS, but also have many other statistical packages installed on them. Also installed is the ArcGIS software and the browsers and other software need to complete home work and online class work.

The usage of these Laboratories and their resources is governed by the procedures and rules outlined in the UMass Lowell School of Health and Environment Acceptable Use Policy (following page). Failure to comply with these policies will result in the loss of SHE computer lab privileges.
School of Health and Environment Acceptable Use Policy

In order to make available the limited amount of resources to the most students, several policies have been put in place to govern use of the computer labs in the School of Health and Environment (SHE). Most policies have been addressed in the University of Massachusetts at Lowell Computer Network Usage Policy. This document adds additional specific policies regarding the use of SHE computer lab equipment and resources.

Violation of these policies and procedures could result in loss of lab use privileges.

Workstations

There are 3 computer labs designated for use by the School of Health and Environment students: Weed 212, Weed 216 and Kitson 200B.

These systems are to be used only by students currently enrolled in a School of Health and Environment program. You may not move or attempt to move any piece of equipment. If equipment needs repair, you are to make it known to the lab staff. You are not to change the setup of any computer in the lab. The computers have been setup to accommodate the vast majority of the students. If you need a specific change, please contact the lab staff.

Unauthorized use

It is the responsibility of the users to ensure that they make sure that they are indeed enrolled in a program in the School of Health and Environment. You may be asked to show your ID and have your name checked against a master roster at any time by the lab staff. You will be asked to leave the lab if you are not on the master roster.

You may not use the lab resources to gain unauthorized access to other UML or non-UML computer systems. This also includes but is not limited to “password cracking”, “spamming”, “hacking “or “denial of service attacks”.

Printer usage

Only SHE enrolled students will be able to print in the computer labs. Each student will be given a password to use the print stations. When clicking “Print” on your job, you will be prompted for your username and password to print. It is the responsibility of the user to keep this account and password secret. Users who give out their printing username/password to other individuals will have their access to printing privilege revoked. If you do not know the username and password, please see a lab staff member and he/she will check your name and ID against the master roster. If your name does not appear on that roster, it is the user’s responsibility to have that corrected.

If there is a problem with the printer, please do not try to fix it yourself. Please tell a member of the lab staff and the issue will be corrected as soon as possible.

Eating and Drinking and Cleanliness

There is absolutely no eating, drinking or smoking in the labs. Food and drink may not be brought into the labs, including unopened items. Failure to comply with this policy will result in the loss of lab privileges.

It is the responsibility of the user to keep his/her work area clean. Please take any refuse with you when you leave.

Game Playing

Game playing is not permitted in the labs at any time unless specific authorization of the lab staff has been granted. There are limited resources and these need to be available for others who have been assigned homework using the specific software installed in the labs.
V. Exercise Physiology Clinical Practicum

This capstone course in the EP curriculum is taken during either the fall or spring semester in the Senior year. It is an integrated practicum in which students are assigned either to a cardiopulmonary rehabilitation facility or to a fitness center for 12 hours/week. This experience is an integrated one, meaning students also return to campus to take other courses and attend Seminar. The practicum is designed as a practical application of knowledge and as an opportunity to polish professional behavior, communication skills (verbal, non-verbal, written), problem-solving abilities, safety, and administrative/management skills. The goal of the Department of Physical Therapy is to prepare entry-level practitioners in exercise physiology and in physical therapy.

A. Practicum General Policies

1. The practicum component of the curriculum is directed by the Practicum Coordinator. The Practicum Coordinator identifies and develops sites which are suitable and compatible with our program. Students do not contact a facility to establish a practicum experience.

2. All affiliations sign a contractual Agreement with the University. This Agreement, which is a legal and binding document, outlines the rights and responsibilities of each party. All such Agreements must be in place prior to any student beginning Practicum.

3. Any costs for practicum education are the students’ responsibility. These may include transportation, parking, attire, nametags, meals, health pre-requisites, BLS certifications.

4. Students will meet with the Practicum Coordinator in their junior year to discuss pre-requisites for the practicum experience. These include health pre-requisites, immunizations, CORI checks, Basic Life Support certification etc. All these must be completed prior to beginning a practicum. In addition, some placements may also require an interview or attendance at an orientation or an on-site blood test.

5. The Practicum Coordinator will meet with the students in the Junior year to determine who will go out on practicum during the fall semester or during the spring semester of their Senior year. Specific placements are made in a group meeting with the Practicum Coordinator. There is no guarantee for placement because of a student’s employment, lack of transportation, family responsibilities, or athletic team participation.

6. There is a co-requisite of Senior Seminar for those students out on practicum.

7. The Practicum coordinator will visit a site as needed.

Should arrangements be made to withdraw a student from a practicum for any reason, each case will be handled on an individual basis. In some cases, students may conclude their assignment at a later date (i.e. withdrawal for a medical reason) or a student can be dropped from the EP program.

Students who have special physical, mental, or emotional problems are expected to spell these out to the Department prior to consideration for practicum placement. Medical diagnoses and medications must be known (specifically) for the students safety as well as for the safety of the clients with whom they will interact.
B. Emergency Policy

1. In the event of a medical emergency involving a UMass Lowell student, please follow this procedure. Take all necessary action to deal with the emergency in a timely manner.

   a. Contact the Department of Physical Therapy at UML-Phone: (978)934-4517. The secretary will connect you with the Practicum Coordinator, the Department Chair or the Dean of the School of Health and Environment.

   b. Have ready:
      - Student name
      - Facility name
      - Facility phone number
      - Nature of emergency
      - Facility contact person

   c. The University will contact “the person to notify in case on an emergency.”

2. Exposure to Bloodborne Pathogens while on Practicum

   All students are expected to follow Universal Precautions. In the event of exposure to bloodborne pathogens, the student will follow these procedures.

   a. Follow agency policy for reporting, testing, treatment AND THEN REPORT TO

   b. UML’s Student Health Services Director, Nancy Quattrocchi at (978) 934-4492 for reporting and referral for testing and referral for treatment if not provided by the agency.

   The Health Services will have confidential medical evaluation and follow-up. Students need not share the details of the incident with anyone except the Director of Student Health Services. It is the exposed student’s option to participate in the testing and treatment.

C. Practicum Attendance Policy

Practicum experiences are part time (12 hrs/week) and times are arranged by mutual agreement of the student and supervisor. (Students will follow the University calendar.) Attendance is mandatory during practicum hours. Make up of any missed hours are at the discretion of the student’s supervisor, in consultation with the Practicum Coordinator. Prolonged absence due to illness or injury may result in the student being pulled from practicum and re-assigned in another semester.

1. If a student cannot attend practicum due to illness, injury or family emergency, the student must notify his/her supervisor and the Practicum Coordinator.

2. Students are excused from practicum should the University be closed due to a snow day. Any make-up for snow days is a mutual decision between the supervisor and the student, unless there is a problem. If so, call the Practicum Coordinator.

3. Students who are observing religious holidays shall be excused from practicum that day and be given the opportunity to make up those hours. Speak to your supervisor and to the Practicum Coordinator ahead of time.

4. Attendance at the co-requisite Senior Seminar is mandatory. If there are any problems, contact the Practicum Coordinator and the seminar instructor.

5. The traditional February vacation for grades K-12 is NOT part of our academic calendar. Students are expected to be in class and attend practicum.
D. Other Policies

1. Students may not get paid by the site during their practicum semester. It is both an ethical consideration and specifically prohibited by our contractual agreements.

2. Students may not “double up” hours to finish clinical before the end of the semester.

3. Student may NOT do any invasive procedures such as drawing blood for a cholesterol test; as they are not trained and qualified to do so.

4. Students must wear a nametag at all times at practicum so that one is clearly identified as a student.

5. Students must observe Universal precautions.

6. Students must maintain confidentiality and all H.I.P.P.A. regulations.

7. Students must sign documents with an “EP, S” after one’s name to indicate one is student.
### E. Generic Abilities

**Generic Abilities***

Generic abilities are attributes, characteristics or behaviors that are not explicitly part of the profession’s core of knowledge and technical skills but are nevertheless required for a successful profession. The ten abilities and definitions are:

<table>
<thead>
<tr>
<th>Generic Ability</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Commitment to Learning</td>
<td>The ability to self assess, self-correct, and self-direct; to identify needs and sources of learning; and to continually seek new knowledge and understanding.</td>
</tr>
<tr>
<td>2. Interpersonal Skills</td>
<td>The ability to interact effectively with patients, families, colleagues, other health care professionals, and the community and to deal effectively with cultural and ethnic diversity issues.</td>
</tr>
<tr>
<td>3. Communication Skills</td>
<td>The ability to communicate effectively (i.e., speaking, body language, reading, writing, listening) for varied audiences and purposes.</td>
</tr>
<tr>
<td>4. Effective Use of Time and Resources</td>
<td>The ability to obtain the maximum benefit from a minimum investment of time and resources.</td>
</tr>
<tr>
<td>5. Use of Constructive Feedback</td>
<td>The ability to identify sources of and seek out feedback and to effectively use and provide feedback for improving professional interaction.</td>
</tr>
<tr>
<td>6. Problem-Solving</td>
<td>The ability to recognize and define the problems, analyze data, develop and implement solutions, and evaluate outcomes.</td>
</tr>
<tr>
<td>7. Professionalism</td>
<td>The ability to exhibit appropriate professional conduct and to represent the profession effectively.</td>
</tr>
<tr>
<td>8. Responsibility</td>
<td>The ability to fulfill commitments and to be accountable for actions and outcomes.</td>
</tr>
<tr>
<td>9. Critical Thinking</td>
<td>The ability to question logically; to identify, generate, and evaluate elements of logical argument; to recognize and differentiate facts, illusions, assumptions, and hidden assumptions; and to distinguish the relevant from the irrelevant.</td>
</tr>
<tr>
<td>10. Stress Management</td>
<td>The ability to identify sources of stress and to develop effective coping behaviors.</td>
</tr>
</tbody>
</table>

*Adapted from May et al, Journal of Physical Therapy Education. 9:1, Spring 1995*
1. Commitment to Learning

Behavioral Criteria

Beginning Level
- Identifies problems
- Formulates appropriate questions
- Identifies and locates appropriate resources
- Demonstrates a positive attitude (motivation) toward learning
- Offers own thoughts and ideas
- Identifies need for further information

Developing Level (builds on preceding level)
- Prioritizes information needs
- Analyzes and subdivides large questions into components
- Seeks out professional literature
- Sets personal and professional goals
- Identifies own learning needs based on previous experiences
- Plans and presents an in-service, or research or case studies
- Welcomes and/or seeks new learning opportunities

Entry Level (builds on preceding levels)
- Applies new information and re-evaluates performance
- Accepts that there may be more than one answer to a problem
- Recognizes the need to and is able to verify solutions to problems
- Reads articles critically and understands limits of application to professional practice
- Researches and studies areas where knowledge base is lacking

Post-Entry Level (builds on preceding levels)
- Questions conventional wisdom
- Formulates and re-evaluates position based on available evidence
- Demonstrates confidence in sharing new knowledge with all staff levels
- Modifies programs and treatments based on newly-learned skills and considerations
- Consults with other allied health professionals and physical therapists for treatment ideas
- Acts as mentor in area of specialty for other staff

Behavioral Criteria

2. Interpersonal Skills

Beginning Level
- Maintains professional demeanor in all interactions
- Demonstrates interest in clients
- Respects cultural and personal differences of others; is non-judgmental about clients’ lifestyles
- Communicates with others in a respectful, confident manner
- Respects personal space of clients and others
- Maintains confidentiality in all clinical interactions
- Demonstrates acceptance of limited knowledge and experience
Generic Abilities Continued

Developing Level (builds on preceding level)
- Recognizes impact of non-verbal communication and modifies accordingly
- Assumes responsibility for own actions
- Motivates others to achieve
- Establishes trust
- Seeks to gain knowledge and input from others
- Respects role of support staff

Entry Level (builds on preceding levels)
- Listens to clients but reflects back to original concern
- Works effectively with challenging clients
- Responds effectively to unexpected experiences
- Talks about difficult issues with sensitivity and objectivity
- Delegates to others as needed
- Approaches others to discuss differences in opinion
- Accommodates differences in learning styles

Post-Entry Level (builds on preceding levels)
- Recognizes role as a leader
- Builds partnerships with other professionals
- Establishes mentor relationships

3. Communication Skills

Behavioral Criteria

Beginning Level
- Demonstrates understanding of basic English (verbal and written): uses correct grammar, accurate spelling and expression
- Writes legibly
- Recognizes impact of non-verbal communication: maintains eye contact, listens actively
- Maintains eye contact

Developing Level (builds on preceding level)
- Utilizes non-verbal communication to augment verbal message
- Restates, reflects and clarifies message
- Collects necessary information from the clients interview

Entry Level (builds on preceding levels)
- Modifies communication (verbal and written) to meet the needs of different audiences
- Presents verbal or written message with logical organization and sequencing
- Maintains open and constructive communication
- Utilizes communication technology effectively
- Dictates clearly and concisely
Generic Abilities Continued

Post-Entry Level (builds on preceding levels)
- Demonstrates ability to write scientific research papers and grants
- Fulfills role as client advocate
- Communicates professional needs and concerns
- Mediates conflict

4. Effective Use of Time and Resources

Behavioral Criteria

Beginning Level
- Focuses on tasks at hand without dwelling on past mistakes
- Recognizes own resource limitations
- Uses existing resources effectively
- Uses unscheduled time efficiently
- Completes assignments in timely fashion

Developing Level (builds on preceding level)
- Sets up own schedule
- Coordinates schedule with others
- Demonstrates flexibility
- Plans ahead

Entry Level (builds on preceding levels)
- Sets priorities and reorganizes as needed
- Considers client's goals in context of client, clinic, and third party resources
- Has ability to say "No"
- Performs multiple tasks simultaneously and delegates when appropriate
- Uses scheduled time with each client efficiently

Post-Entry Level (builds on preceding levels)
- Uses limited resources creatively
- Manages meeting time effectively
- Takes initiative in covering for absent staff members
- Develops programs and works on projects while maintaining case loads
- Follows up on projects in timely manner
- Advances professional goals while maintaining expected workload

5. Use of Constructive Feedback

Behavioral Criteria

Beginning Level
- Demonstrates active listening skills
- Actively seeks feedback and help
- Demonstrates a positive attitude toward feedback
- Critiques own performance
- Maintains two-way communication
Generic Abilities Continued

**Developing Level** (builds on preceding level)
- Assesses own performance accurately
- Utilizes feedback when establishing pre-professional goals
- Provides constructive and timely feedback when establishing pre-professional goals
- Develops plan of action in response to feedback

**Entry Level** (builds on preceding levels)
- Seeks feedback from clients
- Modifies feedback given to clients according to their learning styles
- Reconciles differences with sensitivity
- Considers multiple approaches when responding to feedback

**Post-Entry Level** (builds on preceding levels)
- Engages in nonjudgmental, constructive problem-solving discussions
- Acts as conduit for feedback between multiple sources
- Utilizes feedback when establishing professional goals
- Utilizes self-assessment for professional growth

6. **Problem-Solving**

**Behavioral Criteria**

**Beginning Level**
- Recognizes problems
- States problems clearly
- Describes known solutions to problem
- Identifies resources needed to develop solutions
- Begins to examine multiple solutions to problems

**Developing Level** (builds on preceding level)
- Prioritizes problems
- Identifies contributors to problem
- Considers consequences of possible solutions
- Consults with others to clarify problem

**Entry Level** (builds on preceding levels)
- Implements solutions
- Reassesses solutions
- Evaluates outcomes
- Updates solutions to problems based on current research
- Accepts responsibility for implementing solutions

**Post-Entry Level** (builds on preceding levels)
- Weighs advantages
- Participates in outcome studies
- Contributes to formal quality assessment in work environment
- Seeks solutions to community health-related problems
7. Professionalism

Behavioral Criteria

Beginning Level
• Demonstrates awareness of state licensure regulations
• Abides by facility policies and procedures
• Projects professional image
• Attends professional meetings
• Demonstrates honesty, compassion, courage and continuous regard for all

Developing Level (builds on preceding level)
• Identifies positive professional role models
• Discusses societal expectations of the profession
• Acts on moral commitment
• Involves other health care professionals in decision-making
• Seeks informed consent from clients

Entry Level (builds on preceding levels)
• Demonstrates accountability for professional decisions
• Treats clients within scope of expertise
• Discusses role of exercise physiology in health care
• Keeps client as priority

Post-Entry Level (builds on preceding levels)
• Participates actively in professional organizations
• Attends workshops
• Actively promotes the profession
• Acts in leadership role when needed
• Supports research

8. Responsibility

Behavioral Criteria

Beginning Level
• Demonstrates dependability
• Demonstrates punctuality
• Follows through on commitments
• Recognizes own limits

Developing Level (builds on preceding level)
• Accepts responsibility for actions and outcomes
• Provides safe and secure environment for clients
• Offers and accepts help
• Completes projects without prompting
Generic Abilities Continued

**Entry Level** (builds on preceding levels)
- Directs clients to other health care professionals when needed
- Delegates as needed
- Encourages client accountability

**Post-Entry Level** (builds on preceding levels)
- Orient and instructs new employees/students
- Promotes clinical education
- Accepts role as team leader
- Facilitates responsibility for program development and modification

9. **Critical Thinking**

**Behavioral Criteria**

**Beginning Level**
- Raises relevant questions
- Considers all available information
- States the results of scientific literature
- Recognizes "holes" in knowledge base
- Articulates ideas

**Developing Level** (builds on preceding level)
- Feels challenged to examine ideas
- Understands scientific method
- Formulates new ideas
- Seeks alternative ideas
- Formulates alternative hypotheses
- Critiques hypotheses and ideas

**Entry Level** (builds on preceding levels)
- Exhibits openness to contradictory ideas
- Assesses issues raised by contradictory ideas
- Justifies solutions selected
- Determines effectiveness of applied solutions

**Post-Entry Level** (builds on preceding levels)
- Distinguishes relevant from irrelevant data
- Identifies complex patterns of associations
- Demonstrates beginning intuitive thinking
- Distinguishes when to think intuitively vs. analytically
- Recognizes own biases and suspends judgmental thinking
- Challenges others to think critically
10. Stress Management

Behavioral Criteria

**Beginning Level**
- Recognizes own stressors or problems
- Recognizes distress or problems in others
- Seeks assistance as needed
- Maintains professional demeanor in all situations

**Developing Level** (builds on preceding level)
- Maintains balance between professional and personal life
- Demonstrates effective affective responses in all situations
- Accepts constructive feedback
- Establishes outlets to cope with stressors

**Entry Level** (builds on preceding levels)
- Prioritizes multiple commitments
- Responds calmly to urgent situations
- Tolerates inconsistencies in health-care environment

**Post-Entry Level** (builds on preceding levels)
- Recognizes when problems are unsolvable
- Assists others in recognizing stressors
- Demonstrates preventative approach to stress management
- Establishes support network for self and clients
- Offers solutions to the reduction of stress within the work environment

*Adapted from May et al, Journal of Physical Therapy Education*
F. Student Practicum Performance Evaluation Form

University of Massachusetts Lowell
School of Health and Environment
Department of Physical Therapy

EXERCISE PHYSIOLOGY PRACTICUM
STUDENT PERFORMANCE EVALUATION

(please print)

STUDENT: __________________________ Class of: ______

PRACTICUM FACILITY: __________________________

TYPE OF EXPERIENCE:  
___ Outpatient Cardiac Rehabilitation  
___ Outpatient Pulmonary Rehabilitation  
___ Fitness/Wellness  
___ Strength / Conditioning  
___ Other: __________________________

TIME OF PRACTICUM: ______ Academic Year  
___ Fall Semester  
___ Spring Semester

PRACTICUM SUPERVISOR(S): ______________________

________________________

DAYS ABSENT: _______________

REASON(S): __________________________

WERE DAYS MADE UP: ______ YES  _____ NO  _____ HOW MANY NOT?

If not, please indicate reason:

Adapted from The New England Consortium
G. Introduction to the Student Practicum Performance Evaluation Tool

This Evaluation Tool was adapted from The New England Consortium, and it is designed as a process-oriented tool. The emphasis is on developing students as thinking and behaving beginning professionals who not only command didactic knowledge, but also can apply it with clear communication skills. It is also important that students are flexible within the professional setting so that they can adapt to ever-changing situations with ease and good humor.

The Tool is divided into five major areas for individual review:
I. Professional Behavior and Attitude
II. Safety
III. Interpersonal Relationships and Communication Skills
IV. The Problem-Solving Process
V. Administration/Management Skills

Guidelines for Grading

Objective:
This Evaluation Tool is process-oriented and specifically delineates to the student not only technical competencies but also those behaviors and expectations which comprise both professional behavior and a systematic approach to solving problems.

GRADE THE STUDENT AGAINST ENTRY-LEVEL COMPETENCE.

1. Base your grades on the most frequently observed level of performance. No grade should be based on an isolated incident. The student needs the opportunity to correct any problem areas.

2. Each grade should reflect the student's performance at that specific point in time i.e. mid-term or final. Avoid "averaging" how the student performed over the first half or the last half of the affiliation.

3. Please use the "comment" section to illustrate points, provide anecdotal and/or information to help document grading.

4. Use whole numbers only. Do not use decimals (2.5) or plusses or minuses (2-, 3+).
The Rating Scale and Definitions

The following definitions are provided for consistency and clarity. Please use the rating scale below to indicate the student's level of competency for each of the stated objectives/sub-objectives. Please utilize a whole number when rating a category, thereby avoiding half grades or plus and minus grades.

The Scale:

4: **Excellent.** Consistently meets the stated objective and/or the student is capable of functioning safely and independently. The student may seek confirmation from the practicum instructor. *(Confirmation = Student may confer with the practicum instructor prior to, or following an activity for the purpose of sharing information and/or validating the student's decision-making or behavior.)*

3: **Good.** Consistently meets the stated objective. The student, however, needs guidance from the practicum instructor about decision-making, information or behavior. *(Guidance = Student needs advice from the practicum instructor to expand knowledge or skills. The presence of the practicum instructor in the immediate vicinity is not necessary.)*

2: **Weak.** Meets the stated objective, but with inconsistencies (knowledge, behavior or decision-making.) The student requires supervision from the practicum instructor. *(Supervision = The student needs verbal cueing or physical assistance from the practicum instructor. The presence of the practicum instructor in the immediate vicinity is necessary.)*

1: **Poor/Unacceptable.** Does not meet the stated objective (knowledge, behavior or decision-making.) The student requires constant supervision from the practicum instructor. *(Constant supervision = The student requires continuous verbal cueing or continuous physical assistance from the practicum instructor.)*

N/A: **Not applicable.** The stated objective is not applicable to this setting.

N/O: **Not observed.** The stated objective is not observed to the extent that a rating is appropriate. No grade shall be based on an isolated incident.

* The asterisk indicates competencies which are felt to be essential criteria for satisfactory completion of the practicum experience. These relate to safety and adherence to ethical, legal and administrative policies and procedures. Any inconsistencies (rating below "3") found in the essential competencies will be interpreted as practicum incompetency and result in failure of the practicum. Full documentation of such inconsistencies must be provided to the student and to the Chair and/or Coordinator of the Exercise Physiology Program at the University.
## I. PROFESSIONAL BEHAVIOR AND ATTITUDE

<table>
<thead>
<tr>
<th></th>
<th>Mid-term</th>
<th>Final</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Is punctual and dependable.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Wears appropriate attire, including required nametag.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Follows ethical and legal standards of practice and behavior.</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Demonstrates enthusiasm and professional curiosity.</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Accepts constructive criticism well.</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Accepts responsibility for own actions.</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Shows respect for others (clients/peers/supervisors)</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Maintains confidentiality.</td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Is cooperative and courteous.</td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>Adapts well to changing situations: is flexible.</td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>Maintains appropriate professional distance.</td>
<td></td>
</tr>
<tr>
<td>12.</td>
<td>Is able to self-evaluate accurately.</td>
<td></td>
</tr>
<tr>
<td>13.</td>
<td>Demonstrates good personal hygiene.</td>
<td></td>
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<tr>
<td>14.</td>
<td>Shows initiative: Sees what needs to be done and does it without being told.</td>
<td></td>
</tr>
<tr>
<td>15.</td>
<td>Demonstrates empathy.</td>
<td></td>
</tr>
<tr>
<td>16.</td>
<td>Demonstrates neutral professional touch when touching clients/patients.</td>
<td>yes</td>
</tr>
<tr>
<td>17.</td>
<td>Participates in appropriate in-service education.</td>
<td>yes</td>
</tr>
</tbody>
</table>

**COMMENTS/DOCUMENTATION:** Professional Behavior and Attitude

**Mid-term:**

**Final:**

---

38
II. SAFETY

<table>
<thead>
<tr>
<th></th>
<th>Mid-term</th>
<th>Final</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Observes facility's health and safety regulations (including Universal Precautions)</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Knows the facility's emergency protocol.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Recognizes changes in the client's physiological and psychological status.</td>
<td></td>
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<tr>
<td>4.</td>
<td>Responds appropriately to changes in the client's status.</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Handles clients safely.</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Asks for appropriate help when necessary.</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Can monitor more than one client at a time.</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Knows contraindications/precautions to exercises.</td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>Teaches what <em>not</em> to do and why <em>not</em>.</td>
<td></td>
</tr>
</tbody>
</table>

**Assumption of Risk Issues:**

**COMMENTS/DOCUMENTATION: Safety**

Mid-term: __________________________________________

Final: __________________________________________
### III. INTERPERSONAL RELATIONSHIPS AND COMMUNICATION SKILLS (VERBAL & NON-VERBAL)

#### Verbal

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Mid-term</th>
<th>Final</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Speaks politely and tactfully.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Uses appropriate tone of voice.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Speaks clearly; does not mumble.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Uses proper grammar.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Uses appropriate terminology (refrains from using inappropriate slang or jargon).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Demonstrates ease in speaking in front of a group.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Establishes effective relationships with client.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Establishes effective relationships with practicum instructor(s) and staff members.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Acknowledges feedback from practicum instructor(s).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>Initiates communication easily.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>Asks relevant questions in a timely manner.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.</td>
<td>Can &quot;translate&quot; information into easily understood language for clients.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Non-Verbal

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Mid-term</th>
<th>Final</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Recognizes the importance of non-verbal communication.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Recognizes the effects of his/her own non-verbal communication upon others.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Maintains appropriate posture, gesture and facial expressions.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Correctly interprets and responds to the non-verbal behaviors of others.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Paperwork/Documentation

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Mid-term</th>
<th>Final</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Maintains documentation in accordance with facility's policies.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Writes in an organized, logical, and concise manner.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Writes legibly, using correct spelling and grammar.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
4. Uses appropriate professional terminology and abbreviations.  

5. His/her written material is accurate.  

6. Written materials are done in a timely manner.  

<table>
<thead>
<tr>
<th><strong>Student Presentation/Workshop</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Presented an in-service workshop, client lecture or special program at the facility.</td>
<td>yes no</td>
</tr>
<tr>
<td>Topic: __________________________</td>
<td></td>
</tr>
</tbody>
</table>

**COMMENTS/DOCUMENTATION:** Interpersonal Relationships and Communication Skills (Verbal, Non-verbal, and Written)

**Mid-term:** __________________________

**Final:** __________________________
### IV. THE PROBLEM-SOLVING PROCESS

<table>
<thead>
<tr>
<th>Problem Identification</th>
<th>Mid-term</th>
<th>Final</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Clearly recognizes that a problem(s) exists that needs to be addressed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Is able to define the problem(s) that need to be addressed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Can explain the problem accurately to the practicum instructor.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Can analyze the problem(s) into components to be solved and put them into priority.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Management/Gathering of data</th>
<th>Mid-term</th>
<th>Final</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Organizes available data.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reviews medical/physical history</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reviews risk factor profile.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reviews health/lifestyle habits.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reviews medications.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reviews informed consent.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Identifies need for additional information, when appropriate.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Understands the effects of meds. on performance.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Skills to gather pertinent data (Grade if appropriate to site)**

<table>
<thead>
<tr>
<th></th>
<th>Mid-term</th>
<th>Final</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Blood Pressure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Heart rate (radial pulse)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. EKG lead placement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 4. Protocols:  
  Bruce |        |       |
  Modified Bruce |        |       |
| 5. Interprets Borg RPE scale(s) to clients |        |       |
| 6. Strength Testing |        |       |
| 7. Muscular Endurance Testing |        |       |
| 8. Flexibility Testing |        |       |
| 9. Body Fat Composition Testing |        |       |
| 4. Recognizes end points of testing |        |       |

<table>
<thead>
<tr>
<th>Development of a solution(s)</th>
<th>Mid-term</th>
<th>Final</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Correctly understands test data.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Establishes realistic and timely goals with and for client.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Designs a comprehensive exercise prescription with appropriate frequency, intensity, duration, mode, and progression.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Can explain and defend rationale behind selected exercise program.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Understands and appreciates the client's <strong>psychological</strong> and <strong>physiological</strong> needs and abilities.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Implementation/Teaching of the solution(s)

(Grade if appropriate to site)

1. Effectively teaches the following at an appropriate level:
   1. Aerobic Activity:
      - Step Aerobics
      - Walking/Jogging
      - Treadmill
      - Rower
      - Stair Climber
      - Bicycle
      - UBE
      - Other: (list)
   
   2. Resistive Exercises
      - Weight Training Machines
      - Free Weights
   3. Flexibility Exercises
   4. Relaxation Exercises
   5. Stress Management Information
   6. Nutritional Information
   7. Weight Reduction Information
   8. Environmental Factor Information
   9. Eating Disorders Information
      - Other: (list)

2. Teaches activities logically, clearly.
3. Anticipates common errors in specific exercises and corrects accordingly.
4. Knows sequential progression of exercises.
5. Imparts accurate information to the client.

Evaluation of the solution

Mid-term Final
1. Monitors and evaluates client progress. ___ ___
2. Knows when to modify exercise prescription. ___ ___
3. Knows how to modify exercise prescription. ___ ___
4. Reviews new goals/methods with client. ___ ___

COMMENTS/DOCUMENTATION: Problem-Solving Process
(Problem Identification, Management/Gathering of Data, Development of a Solution, Implementation of the Solution, Evaluation of Solution)

Mid-term: _______________________________________

Final: ______________________________________
V. ADMINISTRATION/MANAGEMENT SKILLS

<table>
<thead>
<tr>
<th></th>
<th>Mid-term</th>
<th>Final</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Organizes time effectively.</td>
<td>_____</td>
<td>_____</td>
</tr>
<tr>
<td>2. Completes tasks in a prompt, timely fashion.</td>
<td>_____</td>
<td>_____</td>
</tr>
<tr>
<td>3. Takes and delivers accurate messages.</td>
<td>_____</td>
<td>_____</td>
</tr>
<tr>
<td>4. Uses free time productively.</td>
<td>_____</td>
<td>_____</td>
</tr>
<tr>
<td>5. Maintains efficient, clean, and safe work area.</td>
<td>_____</td>
<td>_____</td>
</tr>
<tr>
<td>6. Demonstrates how to clean and to maintain the various pieces of equipment.</td>
<td>_____</td>
<td>_____</td>
</tr>
<tr>
<td>7. Knows how to calibrate equipment.</td>
<td>_____</td>
<td>_____</td>
</tr>
</tbody>
</table>

COMMENTS/DOCUMENTATION: Administration/Management Skills

Mid-term: ________________________________

Final: ________________________________
### MID-TERM
Please rate the student's overall **MID-TERM** performance, and indicate with an X:

<table>
<thead>
<tr>
<th></th>
<th>Objectives Met</th>
<th>Objectives Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Professional Behavior and Attitude</td>
<td></td>
<td></td>
</tr>
<tr>
<td>II. Safety</td>
<td></td>
<td></td>
</tr>
<tr>
<td>III. Interpersonal Relationships and Communication Skills</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IV. Problem-Solving Process</td>
<td></td>
<td></td>
</tr>
<tr>
<td>V. Administration/Management Skills</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Date of Discussion: __________
Student Signature: __________
Practicum Instructor Signature: __________

### FINAL
Please rate the student's overall **FINAL** performance, and indicate with an X:

<table>
<thead>
<tr>
<th></th>
<th>Objectives Met</th>
<th>Objectives Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Professional Behavior and Attitude</td>
<td></td>
<td></td>
</tr>
<tr>
<td>II. Safety</td>
<td></td>
<td></td>
</tr>
<tr>
<td>III. Interpersonal Relationships and Communication Skills</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IV. Problem-Solving Process</td>
<td></td>
<td></td>
</tr>
<tr>
<td>V. Administration/Management Skills</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Date of Discussion: __________
Student Signature: __________
Practicum Instructor Signature: __________

**Note:** After the final evaluation, return this form to the Coordinator of the Exercise Physiology Program at the University within three (3) business days of the last day of the affiliation so that grades may be submitted in a timely fashion by the Coordinator. Thank you.
VI. FORMS TO BE SIGNED AND RETURNED

A. Receipt of Student Manual

University of Massachusetts Lowell
School of Health and Environment

Department of Physical Therapy

Exercise Physiology Program

Student Manual

Class of 2011, 2012

I have read and understand the information in this student manual. I agree to abide by the policies contained within this student manual.

Signed: ________________________________________________________________

Print name: ____________________________________________________________

Date: ___________________________  ISIS #: _____________________________
B. Technical Standards / Program Requirements

University of Massachusetts Lowell
School of Health and Environment

Department of Physical Therapy

Exercise Physiology Program: Technical Standards and Program Requirements

RESPONSE SHEET: PLEASE COMPLETE EACH SECTION AND SIGN BELOW. IF YOU ANSWER YES TO ANY QUESTION/CATEGORY, PLEASE PROVIDE AN EXPLANATION BELOW.

DO YOU FORSEE ANY DIFFICULTY IN DEMONSTRATING SKILLS IN?

<table>
<thead>
<tr>
<th>Skill</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>OBSERVATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>described in section #1</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>COMMUNICATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>described in section #2</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>MOTOR SKILLS &amp; FUNCTION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>described in section #3</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>CRITICAL THINKING</td>
<td></td>
<td></td>
</tr>
<tr>
<td>described in section #4</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>BEHAVIORAL &amp; SOCIAL SKILLS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>described in section #5</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

CAN YOU COMPLY WITH OTHER PROGRAM REQUIREMENTS?

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEALTH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CPR CERTIFICATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CORI CHECK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HONOR CODE</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

EXPLANATION:___________________________________________________________________________
____________________________________________________________________________________

Signed:____________________________________________________________________________
Print name:___________________________________________________________________________
Date:________________________                    ISIS #: ___________________________
C. Honor Code Testament

University of Massachusetts Lowell
School of Health and Environment

Department of Physical Therapy

Honor Code

I agree to adhere to the Honor Code of the Physical Therapy Department throughout my tenure in the Exercise Physiology program. I understand I am responsible for complying with professional standards of behavior. I understand prohibited practice and behaviors include cheating, lying or plagiarizing. The preservation of integrity in the academic process is an exercise of professional judgment. The Honor Code also requires that I will report to the faculty observable behaviors in other students who violate the Honor Code. The preservation of integrity in academic process is a responsibility of everyone.

Signed:______________________________________________________________

Print name:___________________________________________________________

Date:________________________                    ISIS #: ___________________________
D. Emergency Contact Form

University of Massachusetts Lowell
School of Health and Environment

Department of Physical Therapy

IN CASE OF AN EMERGENCY

In case of an emergency, contact:

Name:__________________________________________________________

Relationship:__________________________________________________

Telephone:_____________________________________________________

Or

Name:__________________________________________________________

Relationship:__________________________________________________

Telephone:_____________________________________________________

Signed:_______________________________________________________

Print name:___________________________________________________

Date:_________________ ISIS #: ____________________________

Class of:_________________