# Course Change Proposal

**Form A**

<table>
<thead>
<tr>
<th>Academic Group (College):</th>
<th>Academic Organization (Department):</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health and Human Services</td>
<td>Physical Therapy</td>
<td>02-08-11</td>
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</table>

<table>
<thead>
<tr>
<th>Type of Course Proposal:</th>
<th>Department Chair:</th>
<th>Submitted by:</th>
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<tbody>
<tr>
<td>New x</td>
<td>Change __</td>
<td>Deletion ____</td>
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<table>
<thead>
<tr>
<th>Does this course fulfill a requirement for single-subject or multiple subject credential students?</th>
<th>For Catalog Copy:</th>
<th>CCE (Extension):</th>
<th>Semester Effective:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes ____</td>
<td>No X ____</td>
<td>Yes <em>x</em></td>
<td>No ____</td>
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<table>
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<tr>
<th>Prefix &amp; No.</th>
<th>Title:</th>
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<tbody>
<tr>
<td>PT 665</td>
<td>Musculoskeletal Patient Management III</td>
<td>3</td>
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**This course replaces experimental course Subject Area (prefix) and Catalog Nbr (course number):**

**Change from:**

<table>
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**JUSTIFICATION:**

This is a new course developed for the DPT curriculum required for continued accreditation for the physical therapy program. It provides the opportunity for students to develop more advanced skills and apply to patients with musculoskeletal dysfunction.

**NEW COURSE DESCRIPTION:** (Not to exceed 80 words, and language should conform to catalog copy. See http://www.csus.edu/aca/uni/manual/crspsl.htm - Guidelines for Catalog Course Description)

This course builds on the foundational intervention techniques established for management of the patient with musculoskeletal dysfunction in PT625 and PT645. It will address additional manual therapy skills and students will apply their developing skills under faculty supervision to patients referred from the Student Health Center. Students will be responsible for patient management of a case load including accurate documentation and submission of patient records to the Student Health Center. **Open to Physical Therapy Majors Only.**

**Note:**

**Prerequisite:**

- BIO 633 Human Gross Anatomy for Physical Therapists
- PT 600 Pathokinesiology
- PT 608 PT/Patient/Professional Interactions
- PT 630 Pathophysiology
- PT 602 Evidence Informed Practice I
- PT 604 Principles of Human Movement
- PT 606 Therapeutic Measurements and Techniques
- PT 614 Neuroscience for Physical Therapists
- PT 618 Foundations for Patient Management
- PT 620 Physical Therapy Interventions I
- PT 622 Evidence Informed Practice II
- PT 632 Pharmacology for Physical Therapists
- PT 634 Diagnostic Imaging for Physical Therapists
- PT 636 Geriatrics/Gerontology for Physical Therapists
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<td>Psychosocial Issues in Physical Therapy</td>
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<td>PT 695</td>
<td>Clinical Practicum/Internship I</td>
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**Corequisite:**
- PT 663 Integumentary Patient Management
- PT 664 Neuropediatric Patient Management
- PT 668 Health Care Delivery in Physical Therapy II
- PT 680 Graduate Physical Therapy Seminar
- PT 690 Doctoral Project/Culminating Experience

**CAN (California Articulation Number):**
- Instructor Approval Required? Yes _No_ x__
- Title for CMS (not more than 30 characters)
  - Musculoskeletal Pt Mangmnt III

**Course Classification (e.g., lecture, lab, seminar, discussion):**
- Lecture/Laboratory C-02; C16

**Cross Listed?**
- Yes _No_ x__

**How Many Times Can This Course be Taken for Credit?** once

**Can the course be taken for Credit more than once during the same term?**
- Yes _No_ x__
FOR NEW COURSE PROPOSALS OR SUBSTANTIVE CHANGES ONLY:

Description of the Expected Learning Outcomes: Describe outcomes using the following format: “Students will be able to: 1), 2), etc.” 
See the example at http://www.csus.edu/acaf/example.htm

All course objectives are referenced to program educational goals, outcomes, and related objectives. At the conclusion of the course, the student is expected to be able to demonstrate an understanding of the basis, execution, and effectiveness of the physical therapy evaluation, prevention and treatment / intervention procedures that are commonly used with the patient with musculoskeletal dysfunction. Specifically, the student should be able to:

Goal 1.0:  

Demonstrate Professional Physical Therapist Effectiveness

1.1 Compare and contrast normal biological, physiological, and psychological mechanisms of the human body with pathophysiological factors that lead to impaired body functions and structure.
  1.1.1 Discuss the etiology and clinical features of major disorders.
  1.1.2 Describe how pathological processes affect normal function.
  1.1.3 Discuss common medical/surgical treatments for major disorders.
  1.1.4 Analyze the effects of pharmacological agents on human function.

1.2 Determine the physical therapy needs of any individual seeking services.
  1.2.1 Perform an effective and efficient systems review screen.
  1.2.2 Review pertinent medical records and conduct a comprehensive patient interview.
  1.2.3 Carry out appropriate and comprehensive patient examinations including tests and measures in a safe and client-centered manner.
  1.2.4 Determine, with each patient encounter, the patient’s need for further examination or consultation.
  1.2.5 Perform a physical therapy patient examination using evidenced-based tests and measures.
  1.2.6 Utilize available evidence in interpreting examination findings to inform the patient evaluation.
  1.2.7 Evaluate data from the patient examination (history, systems review, tests and measures) to make clinical judgments.
  1.2.8 Synthesize available data on a patient using the concepts and terminology of the most recent disability/enablement theoretical constructs (currently the International Classification of Functioning, Disability, and Health (ICF) Model of Functioning and Disability).
  1.2.9 Cite the evidence (patient history, diagnostic test results, tests, measures, and scientific literature) to support clinical decisions.
  1.2.10 Evaluate and interpret the results of examination findings to classify the patient problem using the most recently adopted diagnostic taxonomy (currently the Guide to Physical Therapist Practice’s labels and practice patterns).
  1.2.11 Integrate and evaluate data that are obtained during the examination to describe the patient condition in terms that will guide the prognosis, the plan of care and intervention strategies.
  1.2.12 Identify and prioritize body function and structure impairments to determine specific activity limitations towards which interventions will be directed.
  1.2.13 Make a referral to another physical therapist, other health care practitioner or agency when physical therapy is not indicated or the patient/client’s needs are beyond the skills, expertise and/or scope of practice of the physical therapist practitioner.
  1.2.14 Determine the need for additional information and utilize technological search mechanisms to find that information.
  1.2.15 Adapt delivery of physical therapy services with consideration for patients’ differences, values, preferences and needs. 
  Apply current knowledge, theory, clinical judgment, and the patient’s values and perspective in patient management.
  1.3.1 Compare and contrast normal biological, physiological, and psychological mechanisms of the human body with pathophysiological factors that lead to impairments.

1.3 Develop a plan of care based on the best available evidence and that considers the patient’s personal and environmental factors.
  1.3.1 Prioritize patient/client problems taking into consideration the patient/client’s needs and goals, health condition, physiological and biological mechanisms within the constraints of the environment and resources.
  1.3.2 Write measurable, functional goals that are time referenced with expected outcomes.
  1.3.3 Determine a patient prognosis by predicting the level of optimal improvement in function and the amount of time required to achieve that level.
  1.3.4 Recognize barriers that may impact the achievement of optimal improvement within a predicted time frame.
  1.3.5 Select and prioritize the essential interventions that are safe, meet the specified functional goals and outcomes and are patient-centered.
  1.3.6 Identify and collaborate with others needed in implementing the plan of care.
  1.3.7 Articulate a specific rationale for referrals made to other providers.
  1.3.8 Progress the plan of care by making ongoing adjustments to interventions.
1.3.9 Include in the plan of care indirect interventions, such as coordination of care, patient/family education, modifications to physical and social environments, and referral to other providers.
1.3.10 Seek and find information using contemporary technology that addresses the specific needs of the patient care plan.
1.3.11 Identify patient needs in terms of discharge planning, discontinuation of care, and transfer of care.
1.4 Implement the physical therapy plan of care designed to restore and/or maintain optimal function applying selected procedural interventions that demonstrate safe and effective psychomotor and clinical reasoning skills.
1.4.1 Perform efficient and effective procedural interventions utilizing evidence-informed physical therapy procedures in a competent manner.
1.4.2 Modify or redirect selected procedural interventions in light of reexaminations and/or patient/client’s response to interventions.
1.4.3 Instruct the patient/client or caregiver in exercises, postures, handling techniques, home exercises consistent with patient/client diagnosis, prognosis, and expected outcomes, to facilitate patient/client progress, to maintain patient/client status, or to slow deterioration.
1.4.4 Assess patient/client progress towards goals/projected outcomes.
1.4.5 Coordinate patient/client care with other health care providers.
1.5 Demonstrate effective verbal and written communication skills with patients, families, other health care professionals, and the public, to facilitate interventions and interdisciplinary interactions and cooperation.
1.5.1 Determine appropriate documentation for the recording of patient/client information consistent with professional standards, the fiscal intermediary, and the treatment setting.
1.5.2 Produce quality documentation in a timely manner to support the delivery of physical therapy services.
1.5.3 Demonstrate thorough, concise documentation consistent with current language from the Patient Management Model contained in the most recent edition of the Guide to Physical Therapist Practice.
1.5.4 Communicate efficiently and effectively with other health care providers involved in the patient/client’s management.
1.6 Utilize data from selected outcome measures to document intervention effectiveness.
1.6.1 Select relevant outcome measures for levels of body functions and structural impairments, activities and participation with respect for their psychometric properties.
1.6.2 Collect relevant evidenced-based outcome measures that relate to patient/client goals and/or prior level of function.
1.6.3 Describe how aggregate data is analyzed to assess the effectiveness of clinical performance (interventions).
1.7 Determine an appropriate discharge, discontinuation of service, or transfer of care plan for patients/clients.
1.7.1 Re-examine patients/clients to determine if continued physical therapy services are indicated.
1.7.2 When a patient/client has reached optimal goals with physical therapy interventions and, when other related services are still needed, seek resources and/or consult with others to identify alternative resources.
1.7.3 Determine needed resources for patients/clients to ensure timely discharge, including follow-up care.
1.7.4 Discontinue care when physical therapy services are no longer indicated.
1.8 Provide consultative services applying the unique knowledge and skills of a physical therapist to identify problems, recommend solutions, or produce an outcome or product.
1.9 Engage in education activities consistent with imparting information and knowledge unique to the expertise of physical therapists to individuals or groups using relevant and effective teaching methods.
1.9.1 Promote health behaviors through educational interventions and modeling.
1.9.2 Apply basic educational concepts to the practice of physical therapy.
1.9.3 Educate colleagues and other health care professionals about the roles, responsibilities and academic preparation of the physical therapist and scope of physical therapy practice.
1.9.4 Present topics/issues using current evidence and sound teaching principles (i.e. case studies, in-service, journal article review, etc).
1.10 Demonstrate the ability to plan, organize, administer, direct, and supervise human and fiscal resources for physical therapy practice management, including:
1.10.1 Billing and reimbursement.
1.10.2 Electronic medical records documentation.
1.10.3 Contemporary electronic communication.
1.10.4 Direction and supervision of support personnel, including Physical Therapist Assistants (PTAs) and aides.
1.10.5 Patient rights, consent, confidentiality and the Health Information Portability and Privacy Act (HIPPA).

Goal 2.0: Demonstrate Professional Behaviors

2.1 Recognize cultural, ethnic, age, economic, and psychosocial differences and apply a humanistic and holistic approach to the delivery of a clinical service.
2.1.1 Practice physical therapy demonstrating cultural competence with all individuals and groups.
2.1.2 Work effectively with challenging patients.
2.1.3 Respect personal space of patients/clients and others.
2.1.4 Demonstrate behaviors that are non-judgmental with regards to patients/clients' lifestyles.
2.1.5 Respect roles of support staff and delegate appropriately.

2.2 Communicate effectively for varied audiences and purposes.
   2.2.1 Demonstrate effective interpersonal (verbal, nonverbal, electronic) communication skills considering the diversity of populations and environments.
   2.2.2 Facilitate therapeutic communication and interpersonal skills.
   2.2.3 Discuss difficult issues with sensitivity and objectivity.
   2.2.4 Appropriately utilize communication technology efficiently, professionally, and effectively.
   2.2.5 Respect roles of support staff and communicate appropriately.

2.3 Participate in professional activities that serve the community and advance the profession of physical therapy.
   2.3.1 Participate in community service activities.
   2.3.2 Recognize the importance of participation in professional association activities.
   2.3.3 Recognize one’s role as a member and leader of the health care team.
   2.3.4 Promote participation in clinical education.

2.4 Recognize the need for personal and professional development.
   2.4.1 Participate in self-assessment to improve clinical and professional performance.
   2.4.2 Welcome and seek new learning opportunities.
   2.4.3 Assume responsibility for professional lifelong learning.
   2.4.4 Accept responsibility and demonstrate accountability for professional decisions.
   2.4.5 Recognize own biases and suspend judgments based on biases.

2.5 Demonstrate entry level generic abilities, including:
   2.5.1 Professional accountability and commitment to learning.
   2.5.2 Recognition of one’s own limitations.
   2.5.3 Effective use of constructive feedback.
   2.5.4 Effective use of time and resources.
   2.5.5 Demonstrate integrity, compassion, and courage in all interactions.

Goal 3.0: Practice in an Ethical and Legal Manner

3.1 Practice physical therapy in a manner consistent with established legal and professional standards.
   3.1.1 Demonstrate awareness of and adherence to state licensure regulations.
   3.1.2 Practice within all applicable regulatory and legal requirements.
   3.1.3 Demonstrate the ability to search and find information about laws and regulations pertaining to physical therapy practice from state and federal electronic sources.
   3.1.4 Demonstrate accountability by adhering to laws and regulations governing physical therapy fiscal management.

3.2 Practice in a manner consistent with the professional code of ethics
   3.2.1 Demonstrate knowledge and application of ethical decision-making.
   3.2.2 Treat patients/clients within scope of practice, expertise and experience.
   3.2.3 Seek informed consent from patients/clients.

Goal 4.0: Demonstrate Scholarship

4.1 Apply basic principles of statistics and research methodologies within the practice of physical therapy.
   4.1.1 Formulate and reevaluate positions based on the best available evidence.
   4.1.2 Evaluate the efficacy and efficiency of physical therapy procedural interventions.
   4.1.3 Critically evaluate and interpret professional literature as it pertains to practice, research, and education.
   4.1.4 Utilize contemporary technology consistently to access evidence.

**Attach a list of the required/recommended course readings and activities [Note: it is understood that these are updated and modified as needed by the instructor(s).] This attachment should be forwarded only to your Dean's office, not Academic Affairs.

Assessment Strategies: A description of the assessment strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers) which will be used by the instructor to determine the extent to which students have achieved the learning outcomes noted above:

GRADING PROCEDURES:

Students will be graded A-F:

<table>
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<th>Component</th>
<th>Weight</th>
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<tr>
<td>Two examinations: midterm &amp; final</td>
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</tr>
<tr>
<td>Participation and performance of learned interventions</td>
<td>25%</td>
</tr>
<tr>
<td>Lab practical examinations</td>
<td>25%</td>
</tr>
<tr>
<td>Documentation</td>
<td>30%</td>
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For whom is this course being developed?
Majors in the Dept  X  Majors of other Depts  _  Minors in the Dept  _  General Education  _  Other  _

Is this course required in a degree program (major, minor, graduate degree, certificate)? Yes X  No _

If yes, identify program(s):  DPT

Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer facilities, faculty, etc.)? Yes  _  No X

If yes, attach a description of resources needed and verify that resources are available.

Indicate which department or programs will be affected by the proposed course (if any):  Physical Therapy

The Department Chair's signature below indicates that affected programs have been sent a copy of this proposal form.

Approvals: If proposed change, new course or deletion is approved, sign and date below. If not approved, forward without signing to the next reviewing authority, and attach an explanatory memorandum to the original copy.

<table>
<thead>
<tr>
<th>Signatures:</th>
<th>Date</th>
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<tbody>
<tr>
<td>Department Chair:</td>
<td>2-28-11</td>
</tr>
<tr>
<td>College Dean or Associate Dean:</td>
<td>2-28-11</td>
</tr>
<tr>
<td>CPSP (for school personnel courses ONLY)</td>
<td>2-28-11</td>
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<tr>
<td>Associate Vice President</td>
<td></td>
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<tr>
<td>and Dean for Academic Programs</td>
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Distribution: Academic Affairs (original), Department Chair and College Dean. Dean's office to send original after approval to Academic Affairs, at mail zip 6016. An electronic copy must also be sent.
CALIFORNIA STATE UNIVERSITY, SACRAMENTO
School of Health and Human Services
Department of Physical Therapy

PT 665 Musculoskeletal Patient Management III

Fall Semester

COURSE CREDIT: 3 units (1 lecture, 2 laboratory)

INSTRUCTOR: TBA

LOCATION: TBA

DAY/TIME: TBA

COURSE DESCRIPTION: This course builds on the foundational intervention techniques established for management of the patient with musculoskeletal dysfunction in PT625 and PT645. It will address additional manual therapy skills and students will apply their developing skills under faculty supervision to patients referred from the Student Health Center. Students will be responsible for patient management of a case load including accurate documentation and submission of patient records to the Student Health Center. **Open to Physical Therapy Majors Only.**

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**CO-REQUISITES**
PT 663  Integumentary Patient Management
PT 664  Neuropediatric Patient Management
PT 668  Health Care Delivery in Physical Therapy II
PT 680  Graduate Physical Therapy Seminar
PT 690  Doctoral Project/Culminating Experience

**REQUIRED TEXT:**
Magee: Orthopedic Physical Assessment 4th edition

**RECOMMENDED TEXT:**
Gross, Fetto, Rosen: Musculoskeletal Examination 2nd edition

**COURSE OBJECTIVES:**
All course objectives are referenced to program educational goals and related objectives. At the conclusion of the course, the student is expected to be able to demonstrate an understanding of the basis, execution, and effectiveness of the physical therapy evaluation, prevention and treatment / intervention procedures that are commonly used with the patient with musculoskeletal dysfunction. Specifically, the student should be able to:

**Goal 1.0:** Demonstrate Professional Physical Therapist Effectiveness

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   1.2.8  Synthesize available data on a patient using the concepts and terminology of the most recent disability-enablement theoretical construct (currently the...
International Classification of Functioning, Disability, and Health (ICF) Model of Functioning and Disability).

1.2.9 Cite the evidence (patient history, diagnostic test results, tests, measures, and scientific literature) to support clinical decisions.

1.2.10 Evaluate and interpret the results of examination findings to classify the patient problem using the most recently adopted diagnostic taxonomy (currently the Guide to Physical Therapist Practice’s labels and practice patterns).

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Apply current knowledge, theory, clinical judgment, and the patient’s values and perspective in patient management 1.1. Compare and contrast normal biological, physiological, and psychological mechanisms of the human body with pathophysiological factors that lead to impairments.

1.3 Develop a plan of care based on the best available evidence and that considers the patient’s personal and environmental factors.

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1.3.2 Write measurable, functional goals that are time referenced with expected outcomes.

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1.4.5 Coordinate patient/client care with other health care providers.

1.5 Demonstrate effective verbal and written communication skills with patients, families, other health care professionals, and the public, to facilitate interventions and interdisciplinary interactions and cooperation.
1.5.1 Determine appropriate documentation for the recording of patient/client information consistent with professional standards, the fiscal intermediary, and the treatment setting.
1.5.2 Produce quality documentation in a timely manner to support the delivery of physical therapy services.
1.5.3 Demonstrate thorough, concise documentation consistent with current language from the Patient Management Model contained in the most recent edition of the Guide to Physical Therapist Practice.
1.5.4 Communicate efficiently and effectively with other health care providers involved in the patient/client’s management.

1.6 Utilize data from selected outcome measures to document intervention effectiveness.
1.6.1 Select relevant outcome measures for levels of body functions and structural impairments, activities and participation with respect for their psychometric properties.
1.6.2 Collect relevant evidenced-based outcome measures that relate to patient/client goals and/or prior level of function.
1.6.3 Describe how aggregate data is analyzed to assess the effectiveness of clinical performance (interventions).

1.7 Determine an appropriate discharge, discontinuation of service, or transfer of care plan for patients/clients.
1.7.1 Re-examine patients/clients to determine if continued physical therapy services are indicated.
1.7.2 When a patient/client has reached optimal goals with physical therapy interventions and, when other related services are still needed, seek resources and/or consult with others to identify alternative resources.
1.7.3 Determine needed resources for patients/clients to ensure timely discharge, including follow-up care.
1.7.4 Discontinue care when physical therapy services are no longer indicated.

1.8 Provide consultative services applying the unique knowledge and skills of a physical therapist to identify problems, recommend solutions, or produce an outcome or product.

1.9 Engage in education activities consistent with imparting information and knowledge unique to the expertise of physical therapists to individuals or groups using relevant and effective teaching methods.

1.9.1 Promote health behaviors through educational interventions and modeling.

1.9.2 Apply basic educational concepts of teaching to the practice of physical therapy.

1.9.3 Educate colleagues and other health care professionals about the roles, responsibilities and academic preparation of the physical therapist and scope of physical therapy practice.

1.9.4 Present topics/issues using current evidence and sound teaching principles (i.e. case studies, in-service, journal article review, etc).

1.10 Demonstrate the ability to plan, organize, administer, direct, and supervise human and fiscal resources for physical therapy practice management, including:

1.10.1 Billing and reimbursement.

1.10.2 Electronic medical records documentation.

1.10.3 Contemporary electronic communication.

1.10.4 Direction and supervision of support personnel, including Physical Therapist Assistants (PTAs) and aides.

1.10.5 Patient rights, consent, confidentiality and the Health Information Portability and Privacy Act (HIPPA).

**Goal 2.0:** **Demonstrate Professional Behaviors**

2.1 Recognize cultural, ethnic, age, economic, and psychosocial differences and apply a humanistic and holistic approach to the delivery of a clinical service.

2.1.1 Practice physical therapy demonstrating cultural competence with all individuals and groups.

2.1.2 Work effectively with challenging patients.

2.1.3 Respect personal space of patients/clients and others.

2.1.4 Demonstrate behaviors that are non-judgmental with regards to patients/clients’ lifestyles.

2.1.5 Respect roles of support staff and delegate appropriately.

2.2 Communicate effectively for varied audiences and purposes.

2.2.1 Demonstrate effective interpersonal (verbal, nonverbal, electronic) communication skills considering the diversity of populations and environments.

2.2.2 Facilitate therapeutic communication and interpersonal skills.

2.2.3 Discuss difficult issues with sensitivity and objectivity.

2.2.4 Appropriately utilize communication technology efficiently, professionally, and effectively.

2.2.5 Respect roles of support staff and communicate appropriately.

2.3 Participate in professional activities that serve the community and advance the profession of physical therapy.

2.3.1 Participate in community service activities.
2.3.2 Recognize the importance of participation in professional association activities.
2.3.3 Recognize one’s role as a member and leader of the health care team.
2.3.4 Promote participation in clinical education.

2.4 Recognize the need for personal and professional development.
2.4.1 Participate in self-assessment to improve clinical and professional performance.
2.4.2 Welcome and seek new learning opportunities.
2.4.3 Assume responsibility for professional lifelong learning.
2.4.4 Accept responsibility and demonstrate accountability for professional decisions.
2.4.5 Recognize own biases and suspend judgments based on biases.

2.5 Demonstrate entry level generic abilities, including:
2.5.1 Professional accountability and commitment to learning.
2.5.2 Recognition of one’s own limitations.
2.5.3 Effective use of constructive feedback.
2.5.4 Effective use of time and resources.
2.5.4 Demonstrate integrity, compassion, and courage in all interactions.

**Goal 3.0:** Practice in an Ethical and Legal Manner
3.1 Practice physical therapy in a manner consistent with established legal and professional standards.
3.1.1 Demonstrate awareness of and adherence to state licensure regulations.
3.1.2 Practice within all applicable regulatory and legal requirements.
3.1.3 Demonstrate the ability to search and find information about laws and regulations pertaining to physical therapy practice from state and federal electronic sources.
3.1.4 Demonstrate accountability by adhering to laws and regulations governing physical therapy fiscal management.

3.2 Practice in a manner consistent with the professional code of ethics
3.2.1 Demonstrate knowledge and application of ethical decision-making.
3.2.2 Treat patients/clients within scope of practice, expertise and experience.
3.2.3 Seek informed consent from patients/clients.

**Goal 4.0:** Demonstrate Scholarship
4.1 Apply basic principles of statistics and research methodologies within the practice of physical therapy.
4.1.1 Formulate and reevaluate positions based on the best available evidence.
4.1.2 Evaluate the efficacy and efficiency of physical therapy procedural interventions.
4.1.3 Critically evaluate and interpret professional literature as it pertains to practice, research, and education.
4.1.4 Utilize contemporary technology consistently to access evidence.

**TEACHING STRATEGIES & LEARNING TECHNIQUES:**

Lecture
Laboratory demonstration & practice
Students will learn patient management interventions used to treat subjects with musculoskeletal dysfunction and apply those interventions under faculty supervision within the context of actual patients referred from the Student Health Center.

**GRADING PROCEDURES:**

- Two examinations: midterm & final 20%
- Participation and performance of learned interventions 25%
- Lab practical examinations 25%
- Documentation 30%

**COURSE OUTLINE:**

- Week 1: course overview
- Week 2: Hip
- Week 3: lumbar spine
- Week 4: SIJ
- Week 5: knee
- Week 6: knee
- Week 7: ankle and foot
- Week 8: shoulder
- Week 9: shoulder
- Week 10: elbow
- Week 11: wrist and hand
- Week 12: cervical spine
- Week 13: cervical spine
- Week 14: thoracic spine
- Week 15: thoracic spine

* The above outline is only a guide for potential topics, actual topics covered will depend on the patients referred from the student health center. Manual therapy interventions for all of these areas will be covered in lecture and laboratory prior to the application of any technique with an actual patient.