College of Education

Proposed Catalog Changes

Effective Summer 2017

MOVEMENT SCIENCES

1. Add the following courses

AT 634 Introduction to Quantitative Data Analysis and Interpretation in Patient Care (2 cr)
This course introduces quantitative research design, methods of measurement, and introductory data analysis skills for health care professionals. The goals are for students to develop an introductory understanding of quantitative design, develop skills to perform basic data analysis procedures, and begin to develop the skills to interpret findings from quantitative data analysis research projects.
Prereq: Permission
Available via distance: Yes
Rationale: Course content was previously taught within AT 630. In the past, AT 630 combined two primary areas of focus; Holistic foundation of Pain in Patient care; and introduction to quantitative data analysis. In regards to clarity of course content, course description, and course title, and course credit, a separation of the primary focus and credit modifications to best match content delivered are desired. As a result the request is to refined one class (AT 630) and add a new class (AT 634) to meet desired clarity. As the DAT is a cohort designed program, total credit requirement for the Fall-1 semester will not change from the current 12 being offered nor will the faculty workload change. Fall-1 proposed global changes for clarity as follows:
- AT 621 from 3 credits to 2 credits
- AT 630 from 3 credits to 2 credits
- AT 634 new class – 2 credits
- AT 640 stays the same 6 credits

AT 635 Intermediate Quantitative Data Analysis & Interpretation in Patient Care (2 cr)
This course provides an in-depth analysis of quantitative research design and data analysis for health care professionals. The goal is to prepare health care students to apply quantitative research design and data analysis skills in patient care. The goals are for students to develop sound understand of research design and be able to utilize correlational, reliability, and univariate data analysis skills to answer important research questions in patient care. Students will learn to interpret and disseminate their findings to other health care professionals.
Prereq: Permission
Available via distance: Yes
Rationale: Course content was previously taught within AT 631. In the past, AT 631 combined two primary areas of focus; Theory and application of current and novel paradigms in patient care, and Intermediate quantitative data analysis and interpretation in patient care. In regards to clarity of course content, course description, and course title, a separation and credit modifications to best match content delivered are desired. As the DAT is a cohort designed program, total credit requirement for the Spring-1 semester will not change from the current 12 being offered nor will the current faculty workload change. Spring-1 proposed global changes for
clarity as follows:

- AT 622 from 3 credits to 2 credits
- AT 631 from 3 credits to 2 credits
- AT 635 new class – 2 credits
- AT 641 stays the same 6 credits

4. Change the following courses:

   **AT 610 Seminar in Athletic Training I: Advances in Manual Therapy and Practice (3 cr)**
   Selected readings from peer reviewed articles will be examined and discussed. Translation of research findings to current clinical practice will be emphasized.
   **Prereq:** Permission

   **Rationale:** As presented on the Curricular Proposal Form, the DAT program is requesting to change course titles and description (when needed) to better reflect the content that is being taught in each course. A request to change course title will include the following courses: AT- 610, 620, 621, 630, 640, 622, 631, 641, 623, 611, 624, 632, 642, 625, 633, & 643.

   **AT 611 Seminar in Athletic Training II: Integrative Manual Therapy and Practice (3 cr)**
   Selected readings from peer reviewed articles will be examined and discussed. Translation of research findings to current clinical practice will be emphasized. Novel intervention theories, techniques, strategies, will be presented, discussed, practiced as related to patient care and practice based evidence.
   **Prereq:** Permission

   **Rationale:** As presented on the Curricular Proposal Form, the DAT program is requesting to change course titles and description (when needed) to better reflect the content that is being taught in each course. A request to change course title will include the following courses: AT- 610, 620, 621, 630, 640, 622, 631, 641, 623, 611, 624, 632, 642, 625, 633, & 643.

   **AT 620 Research Methods & Evidence Based Practice in Patient Care in Athletic Training I (3 cr)**
   This course introduces common research performed in Athletic Training patient care. Development of in-depth understanding in areas and types of research underlying quantitative research design will be explored. Introduction to critiquing literature for the purpose of developing a theoretical framework will be included.
   **Prereq:** Permission

   **Rationale:** As presented on the Curricular Proposal Form, the DAT program is requesting to change course titles and description (when needed) to better reflect the content that is being taught in each course. A request to change course title will include the following courses: AT- 610, 620, 621, 630, 640, 622, 631, 641, 623, 611, 624, 632, 642, 625, 633, & 643.
AT 621 Research Methods in Athletic Training II Action Research in Patient Care (3 cr)
This course introduces statistical methods employed in clinical research. Topics including statistical terminology, measures of central tendency, hypothesis testing and common parametric tests will be the content for the course. This course sets the foundation for action research in clinical practice. Development of a research question and justification with literature review will be employed. Purpose and methods of institutional review will be evaluated. Further discussion will elucidate the importance of becoming a scholarly practitioner.
Prereq: Permission

Available via distance: Yes

Rationale: As a cohort design, the courses offered in the Fall-1 semester are being refined to more accurately describe course content, course descriptions, course titles, and course credits. On this note, the change of title and description better matches the course content as well as course credit. Total credit requirement for the Fall-1 semester will not change from the current 12 being offered which will not change current faculty workload. Fall-1 proposed global changes for clarity as follows:
- AT 621 from 3 credits to 2 credits
- AT 630 from 3 credits to 2 credits
- AT 634 new class – 2 credits
- AT 640 stays the same 6 credits

AT 622 Advanced Action Research in Athletic Training Designing and Conducting Applied Research in Patient Care (2 cr)
This course is a continuation of clinical research in athletic training and advances the understanding of the student's understanding of research methods in action research. This continues the process of applied research in clinical practice. Development of methods to test a chosen hypothesis will be created. Exploration of statistical methods to test the clinician's hypothesis will be compared. Dissertation proposal will developed.
Prereq: AT 620 and AT 621

Available via distance: Yes

Rationale: As a cohort design, the courses offered in the Spring-1 semester are being refined to more accurately describe course content, course descriptions, course titles, and course credits. On this note, the change of title and description better matches the course content as well as course credit. Total credit requirement for the Fall-1 semester will not change from the current 12 being offered which will not change current faculty workload. Spring-1 proposed global changes for clarity as follows:
- AT 622 from 3 credits to 2 credits
- AT 631 from 3 credits to 2 credits
- AT 635 new class – 2 credits
- AT 641 stays the same 6 credits

AT 623 Introduction to Survey and Qualitative Methods and Research Design in Athletic Training Patient Care (3 cr)
This course introduces common qualitative methodologies and survey research design in AT patient care.
Prereq: AT 620, AT 621, and AT 622
Rationale: As presented on the Curricular Proposal Form, the DAT program is requesting to change course titles and description (when needed) to better reflect the content that is being taught in each course. A request to change course title will include the following courses: AT- 610, 620, 621, 630, 640, 622, 631, 641, 623, 611, 624, 632, 642, 625, 633, & 643.

AT 624 Advanced Quantitative Data Analysis & Interpretation in Patient Care Methods and Statistics in Athletic Training (3 cr)
This course is a continuation of clinical research in athletic training and advances the students understanding of quantitative research methods and statistics utilized in health professions. This course provides an in-depth analysis of quantitative research design and data analysis for health care professionals. The goal is to prepare health care students to apply quantitative research design and data analysis skills in patient care. Students will develop sound understanding of research design and be able to utilize regression, factor analysis, and multivariate data analysis skills to answer important research questions in patient care. Students will learn to interpret and disseminate their findings to other health care professionals.
Prereq: AT 620, AT 621, AT 622, and AT 623

Rationale: As presented on the Curricular Proposal Form, the DAT program is requesting to change course titles and description (when needed) to better reflect the content that is being taught in each course. A request to change course title will include the following courses: AT- 610, 620, 621, 630, 640, 622, 631, 641, 623, 611, 624, 632, 642, 625, 633, & 643.

AT 625 Dissertation of Clinical Practice Improvement: Analysis and Dissemination of Action Research Project (3 cr)
This continues the process of action research in clinical practice. Data analysis of the student’s research will be performed. Introduction to manuscript writing, dissemination of knowledge in written, oral and poster presentation and a focus on journal review will be the context for this course. Student will successfully present their findings and prepare manuscript in journal ready format. This course is a continuation of clinical research in athletic training and is the culmination of the students research methods in action research related to their Doctor of Athletic Training Studies.
Prereq: AT 620, AT 621, AT 622, AT 623, and AT 624

Rationale: As presented on the Curricular Proposal Form, the DAT program is requesting to change course titles and description (when needed) to better reflect the content that is being taught in each course. A request to change course title will include the following courses: AT- 610, 620, 621, 630, 640, 622, 631, 641, 623, 611, 624, 632, 642, 625, 633, & 643.

AT 630 Current Issues in Clinical Practice Holistic Foundations of Pain in Patient Care (32 cr)
This course explores current topics in clinical practice that influence quality care and methods of measurement and evaluation for quality assessment. Exploration to common instrumentation utilized by clinicians will be discussed and compared to literature utilizing the instruments for research purposes. This course explores current topics in clinical practice, related to the foundations of pain in the human body that influence quality care and methods of measurement
and evaluation for quality assessment. Exploration to common instrumentation utilized by clinicians will be discussed and compared to literature utilizing the instruments for research purposes.

Prereq: Permission

Rationale: In the past, AT 630 combined two primary areas of focus; Holistic foundation of Pain in Patient care; and introduction to quantitative data analysis. In regards to clarity of course content, course description, course title, and course credit, a separation and credit modifications to best match content delivered are desired. As a result the request is to refined one class (AT 630) and add a new class (AT 634) to meet desired clarity. As the DAT is a cohort designed program, total credit requirement for the Fall-1 semester will not change from the current 12 being offered nor will the faculty workload change. Fall-1 proposed global changes for clarity as follows:

- AT 621 from 3 credits to 2 credits
- AT 630 from 3 credits to 2 credits
- AT 634 new class – 2 credits
- AT 640 stays the same 6 credits

AT 631 Current Issues in Clinical Practice II Theory and Application of Current and Novel Paradigms in Patient Care (3 cr)

This course explores current topics and causes of musculoskeletal injuries to the extremities. An in-depth look at epidemiology, biomechanics and other topics related to musculoskeletal injuries of the extremities will be emphasized. Building on foundation of AT 630, this course illustrates the implications of holistic theories of pain by exploring and integrating appropriate novel interventions within efficacious patient care.

Prereq: Permission

Rationale: In the past, AT 631 combined two primary areas of focus; Integration of novel paradigms into clinical practice, and intermediate quantitative data analysis. In regards to clarity of course content, course description, course title, and course credit, a separation and credit modifications to best match content delivered are desired. As a result the request is to refine one class (AT 631) and add a new class (AT 635) to meet desired clarity. As the DAT is a cohort designed program, total credit requirement for the Spring-1 semester will not change from the current 12 being offered nor will the faculty workload change. Spring-1 proposed global changes for clarity as follows:

- AT 622 from 3 credits to 2 credits
- AT 631 from 3 credits to 2 credits
- AT 635 new class – 2 credits
- AT 641 stays the same 6 credits

AT 632 Current Issues in Clinical Practice III Integrative Patient Care for the Spine and Pelvic Girdle (3 cr)

This course explores current topics of interest areas of practicing professionals. An in-depth look at theory, research, and art of the chosen interest area will be explored. Focus will be in critically analyzing areas such as; anatomy, pathophysiology, biomechanics, theoretical framework or ethical principles to explain the students chosen topic. This course explores current topics and causes of musculoskeletal injuries to the spine and pelvis. An in-depth look at epidemiology, biomechanics
and other topics related to musculoskeletal injuries of the lumbar spine and pelvis will be emphasized.

**Prereq:** Permission

**Rationale:** As presented on the Curricular Proposal Form, the DAT program is requesting to change course titles and description (when needed) to better reflect the content that is being taught in each course. A request to change course title will include the following courses: AT- 610, 620, 621, 630, 640, 622, 631, 641, 623, 611, 624, 632, 642, 625, 633, & 643.

**AT 633 Current Issues in Clinical Practice IV Application of Advanced Practice Skills: A Practice-Based Evidence Approach (3 cr)**

This course explores current topics of interest areas of practicing professionals. An in-depth look at theory, research, and art of the chosen interest area will be explored. Focus will be in critically analyzing areas such as; anatomy, pathophysiology, biomechanics, theoretical framework or ethical principles to explain the students chosen topic.

**Prereq:** Permission

**Rationale:** As presented on the Curricular Proposal Form, the DAT program is requesting to change course titles and description (when needed) to better reflect the content that is being taught in each course. A request to change course title will include the following courses: AT- 610, 620, 621, 630, 640, 622, 631, 641, 623, 611, 624, 632, 642, 625, 633, & 643.

**AT 640 Clinical Residency and Analysis of Patient Care I (6 cr)**

This course is designed to critically assess clinical skills and improve patient care of the practicing healthcare professional in a mentor guided model. Improvement in a selected area(s) of clinical practice will be measured via formative and summative assessment that employs quantitative measures. Impact of the skill improvement to the organization and profession will be demonstrated.

**Prereq:** Permission

**Available via distance:**

**Geographical Availability:**

**Rationale:** As presented on the Curricular Proposal Form, the DAT program is requesting to change course titles and description (when needed) to better reflect the content that is being taught in each course. A request to change course title will include the following courses: AT- 610, 620, 621, 630, 640, 622, 631, 641, 623, 611, 624, 632, 642, 625, 633, & 643.

**AT 641 Clinical Residency and Analysis of Patient Care II (6 cr)**

This course is designed to critically assess clinical skills and improve patient care of the practicing healthcare professional in a mentor guided model. Improvement in a selected area(s) of clinical practice will be measured via formative and summative assessment that employs quantitative measures. Impact of the skill improvement to the organization and profession will be demonstrated.
profession will be demonstrated.

Prereq: Permission

Available via distance:  
Geographical Availability:

Rationale: As presented on the Curricular Proposal Form, the DAT program is requesting to change course titles and description (when needed) to better reflect the content that is being taught in each course. A request to change course title will include the following courses: AT- 610, 620, 621, 630, 640, 622, 631, 641, 623, 611, 624, 632, 642, 625, 633, & 643.

AT 642 Clinical Residency and Analysis of Patient Care III (6 cr)
This course is designed to critically assess clinical skills and improve patient care of the practicing healthcare professional in a mentor guided model. This course is designed to improve the clinical skills of the practicing Athletic Training professional in a mentor guided model. Improvement in a selected area(s) of clinical practice will be measured via formative and summative assessment that employs quantitative measures. Impact of the skill improvement to the organization and profession will be demonstrated.

Prereq: Permission

Available via distance:  
Geographical Availability:

Rationale: As presented on the Curricular Proposal Form, the DAT program is requesting to change course titles and description (when needed) to better reflect the content that is being taught in each course. A request to change course title will include the following courses: AT- 610, 620, 621, 630, 640, 622, 631, 641, 623, 611, 624, 632, 642, 625, 633, & 643.

AT 643 Clinical Residency and Analysis of Patient Care IV (6 cr)
This course is designed to critically assess clinical skills and improve patient care of the practicing healthcare professional in a mentor guided model. This course is designed to improve the clinical skills of the practicing Athletic Training professional in a mentor guided model. Improvement in a selected area(s) of clinical practice will be measured via formative and summative assessment that employs quantitative measures do demonstrate improved patient care. Impact of the skill improvement to the organization and profession will be demonstrated. Summary of all impact of clinical residencies will be presented to the participant's organization

Prereq: Permission

Available via distance:  
Geographical Availability:

Rationale: As presented on the Curricular Proposal Form, the DAT program is requesting to change course titles and description (when needed) to better reflect the content that is being taught in each course. A request to change course title will include the following courses: AT- 610, 620, 621, 630, 640, 622, 631, 641, 623, 611, 624, 632, 642, 625, 633, & 643.