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MOV 300: Kinesiology OER Curation

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Overview

Scope Notes

The course covers the laws and principles of mechanics as they apply to the use of the human body, human mechanism, and its process of motor function. Students are required to learn movement related terminology and concepts, major bony landmarks and muscles of the body, and apply this knowledge to analyze human movement. Upon completion of this course students will be able to demonstrate understanding of movement terminology and muscle origin, insertion, and actions; and use their knowledge of movement terminology, concepts, and anatomy to perform a motion analysis. Generally the currently used textbook is satisfactory, but is supplemented by flashcards and outside chapter readings. At times the current textbook lacks details and at other times may provide more detail than needed for the course. Instructor is open to utilizing OER, and may consider converting to full OER depending on the quality and applicability of resources found.

Current textbooks and materials

R.T. Floyd, Manual of Structural Kinesiology (21st ed.), McGraw Hill (2021). ISBN13:
9781260237757 \$329

Search Notes

This search consulted OER Commons, Open Textbook Library, OpenStax, Merlot, BC Campus, and Rebus Community. There are numerous applicable resources. However, the majority will take some adaptation work and may not be “ready made” for an simple exchange transition to OER for this course. Instructors may find the ability to edit, remix and transform openly licensed materials to fit their course scope to be satisfactory.



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Gap Analysis

There is need for additional OER covering this course subject. The greatest current gap is in similar resources existing, particularly from anatomy, that are in need of adaption work to best fit the course scope.

Promising OER Options

Body Physics: Motion to Metabolism

- Body Physics: Lawrence Davis, Motion to Metabolism, Open Oregon (2018).
- Available from [Open Textbook Library](#)
- Online book, PDF, ebook, XML, hardcopy
- CC BY-NC-SA
- Comments: This OER covers the the basic functioning of the human body, and introduces fundamental physics topics related to motion. The resource includes related practice, reinforcement and lab activities. Additional supplementary material, activities, and information can be found at: <https://openoregon.pressbooks.pub/bpsupmat/>

Human Nutrition

- Brian Lindshield, FNDH 400 Human Nutrition, Kansas State University (2018).
- Available from [Google Drive](#)
- PDF, Google Drive
- CC BY-NC-SA
- Comments: This OER was created for an intermediate course on Food, Nutrition, Dietetics and Health. The author describes the OER as a “flexbook.” The text is divided into 13 chapters with sections and subsections. These are numbered in such a way that the first number represents the chapter. A period separates the chapter from the section number, and another period is followed by the subsection number. In addition to the text, the OER contains links to articles, videos, and animations. The figures are out of copyright, in the public domain, or created by the author. The OER is available in Google Drive, but due to its licensing it can be downloaded/copied and then re-mixed by the instructor as long as it remains similarly licensed..

Biomechanics of Human Movement

- Karine Hamm, Biomechanics of Human Movement, Yukon Open Authoring Platform (2020).
- Available from [OER Commons](#)
- PDF
- CC BY

- Comments: This OER is a custom textbook catered to the needs of kinesiology students enrolled in a first-year biomechanics course. It has been modified from OpenStax College Physics and Anatomy and Physiology. This is an excellent example of what can be done with using an openly licensed text and re-mixing it to ideally fit the course.

Stretch Resource Options

Anatomy and Physiology

- Betts et al., Anatomy and Physiology, OpenStax (2021).
- [OpenStax](#)
- Online, PDF, ibooks, Kindle, Bookshare, paper copy
- CC BY
- Comments/Annotations: This text is the most widely used OER for anatomy and physiology. This textbook is designed for a two-semester human anatomy and physiology course for life science and allied health majors, and is organized by body system and covers standard scope and sequence requirements. The text is designed to be easy to understand, has well constructed art, and links to external learning tool that address the learning challenges in the course. The web-based version of Anatomy and Physiology also features links to surgical videos, histology, and interactive diagrams.

There are additional instructor resources, such as course cartridges for common learning management systems, video guides, powerpoint slides, and an OER hub to connect with other instructors utilizing the same materials and learn about OERs they've created as supplemental materials.

Visual self-study review

- GetBodySmart, System Quizzes, KenHub (2021).
- [GetBodySmart](#)
- Online quiz website
- License: Unknown
- Comments: These anatomy and physiology practice exercises use interactive animations, diagrams, and illustrations. They are a resource listed by OpenStax as being used by others who have adopted the OpenStax Anatomy and Physiology textbook.

Anatomy Tool

- AnatomyTOOL, Leiden University Medical Center and University Maastricht, (2021).
- [Anatomy TOOL](#)
- Website
- License: varies

- Comments: AnatomyTOOL is a platform for learning and teaching anatomy that includes anatomical collections, images, videos, dissections, quizzes, and other learning materials. Most materials are licensed under a Creative Commons license.

KIN 4370: Virtual Exercise Testing and Prescription Lab Manual

- Melissa Markofski, KIN 4370: Virtual Exercise Testing and Prescription Lab Manual, University of Houston (2021).
- Available from [OER Commons](#)
- PDF, EPUB, MOBI
- CC BY-NC-SA
- Comments: This book is a lab manual that accompanies a virtual course on exercise. Each lab activity includes a chapter covering background information, protocol description, comprehension questions, and tables to test interpretation. This resource is unlikely to be exactly what instructors need for this course, but it could be adapted to supplement resources for the course.