Course Details



Session 1





The Instructor

- Benjamin S. Kelley (Professor Kelley)
- Baylor University
 - Waco, Texas, USA
 - Dean, School of Engineering and Computer Science
- Vietnam Education Foundation (VEF)
 - U.S. Faculty Scholar
- Mr. Rhett Rigby- graduate student



The Course

Engineering Biomechanics

- In English (American style)
- February and May at HUT (8:00-10:00 am)
- March and April, from Baylor (7:00-9:00 am)
- Built around a design project
 - Design report and presentation
 - Orthopedic "bone plate"
- Mid-term exam and Final exam



Assumptions

• It will not be perfect

- We will learn, cooperate, and grow together

• Course Improvement

- You help me to improve the course
- You will participate in every class session
 - And also be prepared



Grading

- Mid-term exam
- Final exam
- Team Design Report
- Team Design Presentation
- Homework assignments
- Surprise (pop) quizzes
- Graded American style; Vietnamese scale

Homework Assignments

- Only your work
- Technical content
- Must communicate your solution
- Turn in at beginning of class
- Must be readable (neat)
- Answer must be obvious
- Make your mother proud

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Computer Science



Course Book

- Compiled from internet sources
- Custom for this course
- By session/chapter/class day
- Title page with references
- PowerPoint slides
- Reading



During the Class

When teaching from Hanoi

- I will speak slowly
- You must ask questions
- Slides from book

When teaching from Baylor

- You will be able to see and hear me
- You must ask questions
- Slides from book



Outside of the Class

- I am available outside of class to assist
 - I will tell you when and where I am available

• The HUT teaching assistant can help

- During and outside of class
- Mr. Rhett Rigby
 - Baylor graduate student
 - Teaching assistant



Course Syllabus

- Included in book
- While in Ha Noi (February)
 - Design concepts and technical content
 - Anatomy and technical content
- While at Baylor (March & April)
 - Technical content and technical content (same)
- While in Ha Noi (May)
 - Muscle and other topics
 - Design presentations

Course Learning Objectives

By the end of the course students should:

- 1. Have a basic understanding of the function of the musculoskeletal system
- 2. Be able to apply principles of materials mechanics evaluate stresses in bone
- 3. Have an awareness of materials and design of orthopedic implants
- 4. Be able to apply the engineering design process for an orthopedic device

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