600.145
Introduction to Computer-Integrated Surgery

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Organizational Information (con’d)

• Grades
  – Based on completion of homeworks

• About the homeworks
  – 1 thought exercise
  – 1 simple mathematical exercise

• Ground rules
  – Work in groups of at most N people
    • N=2, 3 or 4; I will announce in class, based on attendance
  – Do not work with other groups on homework
  – Do not discuss assignments with anyone else other than Instructor and TA
  – Do not refer to previous years’ homework
Overview of the CIS Course Sequence

• 600.145 (Intersession)
  – Introduction to applications and techniques
  – Some math, no programming

• 600.445 (Fall)
  – Overview of basic techniques & applications
  – Provides background for subsequent research
  – Lectures + homeworks (including programming assignments)

• 600.446/646; 600.452 (Spring)
  – Advanced seminar + lectures + student team projects
  – Emphasis on student projects + project management + presentation skills
  – 600.452 is same course without the project

• 600.746 (Spring)
  – Weekly seminar with readings on advanced topics
Overview of the CIS Course Sequence

• 600.145 (Intersession and Summer)
  – One credit introductory course for students who just want an exposure to basic concepts without in-depth analytical treatment
  – Targeted at freshmen & sophomores
  – Minimum prerequisites
Overview of the CIS Course Sequence

• 600.445 (Fall)
  – Goal is to provide overview of basic techniques & applications and to provide background for subsequent research
  – Lectures + homeworks
  – Optional “project” is usually a report and plan for subsequent implementation project

• 600.446/646; 600.452 (Spring)
  – Combination advanced seminar + lectures + student team projects
  – Emphasis on student projects + project management + presentation skills
  – 600.452 is same course without the project
Other courses

• Surgery for Engineers
  
  – Lectures on basic physiology and surgical techniques
  – Animal use and lab etiquette
  – Hands-on labs using animal models
  
  – Strictly limited numbers (about 12)
  – Preference given to CISST ERC students
  
  – First offered as very intensive intersession course
  – Most recently offered over the summer
  – Expected to be offered gain next summer
Other courses

• 530/600.746 – Medical Image Analysis Seminar (Spring)
  – Papers on selected topics in medical image analysis
  – Jointly led by Prof. Prince & Prof. Taylor
  – Students read a paper every week & review it in detail during weekly recitation
Other CIS education activities

• CISSRS
  – Student society associated with CISST ERC
  – Various talks, projects activities
  – See Cyndi Miller (cmiller@cs,jhu,edu) or Carol Reilly (creilly@cs,jhu,edu) for more information

• Computer-Integrated Surgery Minor
  – WSE undergrad degree
  – CIS “Minor” advisor selected from approved faculty
  – CIS Course Sequence is base
  – Additional courses from selected menu / consent of advisor
  – Tracks for robotics & imaging
  – See me for information