

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 again 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