Medical Illustration

• Jim Perkins, MFA, CMI, FAMI
  – Distinguished Professor and Graduate Director
  – Board Certified Medical Illustrator
  – Fellow, Association of Medical Illustrators

  – 2129 CBET Building
  – japfaa@rit.edu
Medical Illustration

- Visual Media for Medicine and Healthcare
- Markets
  - Medical and allied health education
  - Biomedical research
  - Pharma/biotech/medical device marketing
  - Patient education
  - Litigation

- Media...
Textbooks
Journals

Chris Bickel ‘04
Animation and Video
Animation and Video
Apps, Games, VR/AR
3D Models, Simulators
Legal Exhibits

Injuries From Impact With Scaffolding Pole

- Cross bracing
- Disruption of facial muscles
- Laceration of tongue
- Cross bracing emerging in oral cavity
- Laceration of gingival tissue
- Complete transection of infraorbital nerve
- Zygomatic arch fracture
- Dislocated temporo-mandibular joint
- Fractured ramus of mandible
- Orbital floor, wall, and rim fractures
- Fractured maxillary bone
- Comminuted fracture of nasal cavity
- Anterior maxillary segmental fracture with teeth 6 & 7 loose
Medical Illustration at RIT

• College of Health Sciences & Technology
• Master of Fine Arts (MFA)
  – 2-year degree
  – Observational drawing
  – Computer graphics
  – Biomedical sciences
  – Visual communication design
Curriculum

• Year 1
  – Human Gross Anatomy
  – Anatomic Studies
  – 3D Modeling of Biomedical Forms
  – 3D Animation of Biomedical Forms
  – Computer Applications in Medical Illustration
  – Scientific Visualization
  – Human Immunology
  – Medical Pathophysiology
Curriculum

• Year 2
  – Surgical Illustration
  – Interactive Media I and II
  – Portfolio & Business Practices
  – Studio electives
  – Histology & Histopathology
  – Thesis
Human Gross Anatomy lab

Computer graphics lab
Student Profile/Admissions

• Background in art and life sciences
  – Double major or major/minor

• Admissions requirements
  – 1 year General/Intro Biology (for Biology majors)
  – Minimum of 3 advanced biomedical sciences classes
  – Portfolio – drawing from observation
  – No specific set of art classes required
Employment

• Publishing
  – Science, New England Journal of Medicine

• Medical Centers
  – University of Rochester
  – Roswell Park Cancer Center
  – Mayo Clinic
Employment

• Higher Education
  – MIT Online, Rowan University, Cleveland Inst. of Art

• Advertising, Pharma, Biotech
  – AdMed, Synaptik Digital, Nucleus Medical Communications
  – PharmaDesign, LSI Solutions

• Litigation graphics
  – Impact Trial Consulting, Legal ArtWorks