

Assignment #4

Enabling Materials in Biomedical Engineering and Medical Imaging

- Week 1 (April 7, 9 and 11):
 - **Gripe Session – Wrap up of Assignment #3**
 - Search for current newspaper articles used for common reading material
- Week 2 (April 14, 16 and 18):
 - Group research
 - Preparation of written briefs
- Week 3 (April 21, April 23, and 25):
 - Group Presentations

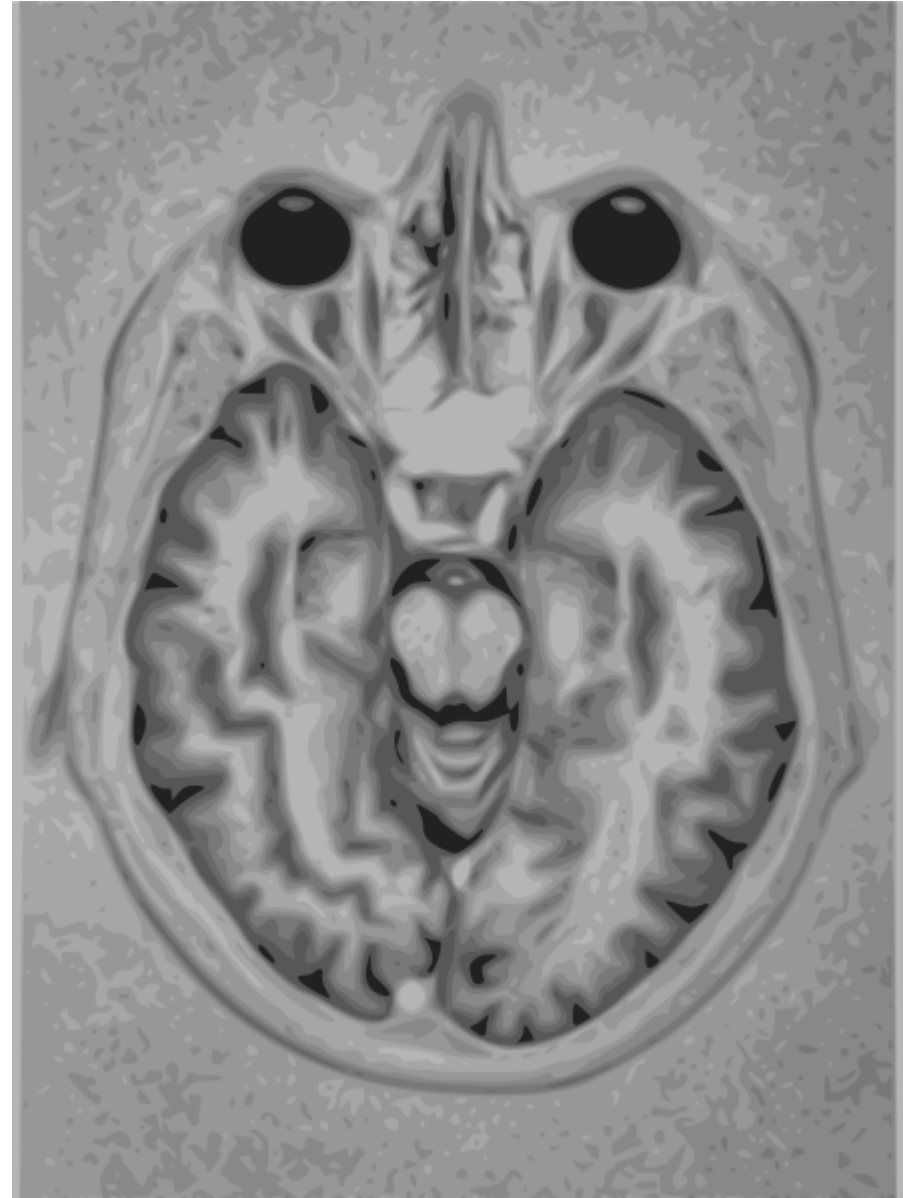
Medical Imaging

1) Generating and Displaying Images

- a) Hardware
- b) Software

2) Analysis

3) Information Content



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Different Areas of Enabling Technology:

1) Bio-materials

- a) Tissue
- b) Neural
- c) Bone
- d) Prosthetics and Implants

2) Medical Imaging technology

- a) MRI
- b) CT scans
- c) Computer support (

3) Informatics

- a) cognitive science (artificial intelligence)

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Enabling Materials in Biomedical Engineering and Medical Imaging

- Common Reading Material
 - Search for Current News Paper Articles and other common reading material
 - Distribution of material on Wednesday April 9
 - Discussions on Friday April 11
 - Formation of Groups
- Focus the searches on Materials Considerations and Technologies used and/or needed for
 - Tissue Engineering and/or Prosthetics
 - Medical Imaging Technologies
 - Informatics (artificial intelligence)