

# ATBME Project Statement

---

## General Description

To complete the Advanced Topics in Biomedical Engineering class, you have to submit a 4-page paper describing your own implementation of a CAD system in the format of the template posted on the web site. This project encompasses all the assignments given in the course and you should consider these assignments as hints to you on how to do the project. This project should be done individually and each student paper should be unique. Papers with high degree of similarity are considered as an ethical violation will result in a failing grade for students submitting these papers. Submission of this paper will include an oral examination on its contents to make sure that this work was done by the student and that the concepts in the course are well understood.

## Necessary Components of the Project Paper

1. Using actual images from available digital mammography databases.
2. Designing and applying your own feature extraction method.
3. Designing and applying your own feature selection method.
4. Designing and applying your own classification method.
5. Describing your overall system results using standard measures of diagnostic performance.
6. Listing all references (textbooks, papers, web sites, etc.) at the end of your paper.

## Deadline for Project Submission

Wednesday January 16<sup>th</sup>, 2013. No late submissions will be accepted.