



GEMS396 TEAM Project Seminar III

FALL 2017

TEAM: TEAM CARDIO

Day, Time Location

Gemstone Team Mentor:

Professor Robert W. Newcomb
1347 AV Williams Bldg.

(301) 405-3662 (office)

Email: newcomb@eng.umd.edu
office hours arranged by appointment

Gemstone Team Librarian: Jordan Sly

Librarian
4109 McKeldin Library

(301) 405-9290 (office)

Email: jsly@umd.edu
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Team Members:

Sarah Asfari
Aishwarrya Jayapal
Sahith Mukku
Bareera Qamar
Divyam Satyarthi
Cristina Tous

Course Description:

Prerequisite: GEMS297. Restriction: Must be in the Gemstone program with junior standing in a research team.

This is the third of six seminars during which Gemstone students carry out interdisciplinary research with the guidance of a faculty mentor. The team presents its progress at the Gemstone Colloquia.

Goals and Objectives:

- The team should have IRB and/or IACUC approval by the beginning of the semester so that data collection can begin right away. Note that IRB approval is necessary if the team plans to work with human subjects and IACUC is necessary if the team plans to work with animals.
- Begin implementing the research activities immediately. This is the year of data collection and analysis (conducting the original research). These activities could include: administering surveys, conducting interviews or focus groups, working in the lab or the field, or finishing a first draft of a prototype.
- Update the team's website.

- Present the research and progress to date at the fall Colloquia. This presentation serves as a checkpoint for each team. Students, faculty, librarians, and staff will evaluate whether or not each team is “on track” according to the expectations of teams for this semester.
- Develop a detailed outline of all five chapters of the final thesis.
- Continue to review the literature on the team's topic and begin to draft portions of Chapter 1 (the introduction of the problem and the justification for the study) and Chapter 2 (the literature review).
- Contact the team's librarian to enlist his/her support with writing the literature review. Continue to identify experts within and outside the University who can help guide the project (people who might ultimately serve as the thesis reviewers/discussants). The team's mentor and librarian can help identify experts.
- Continue to identify scholarly meetings, conferences and/or journals that could be a forum for the research.
- Continue to identify possible funding sources. Apply for appropriate grants.
- Team specific goals are to obtain a working 3D model of the heart with piezoelectric sensors attached.

Participation Policy

Full participation in Gemstone is expected. We will respect up to 2 scheduled absences by each team member. These absences include other scholarly activities, professional commitment or family commitment to which the team member does not have to reschedule. These will be noted in advance.

Grading Criteria:

50% - Degree to which progress meets Timeline for Team Success and Quality of Work

Develop team focus – 10%

Short and long-term goals – 20%

Collection of literature and summaries/collection system – 20%

Research question – 15%

Liaison with Gemstone Program – 5%

Start designing team website – 5%

Start making contacts/outreach to experts – 5%

Other Team Specific Goals – 20%

20% - Individual contribution to teamwork

Take into consideration peer evaluations here.

20% - Participation

Be There!

Participate during class

Take on responsibilities and roles

Contribute to the research progress

10% - Attitude

Destructive sarcasm and other attitudes that detract from group process will not be tolerated.

Deadlines/Due Dates:

Gemstone Junior Colloquia: Thursday November 16, 2017