BME598 Guidelines

(July 2024)

Calendar Description

BME598 MEng Technical Project Units: 3.0

A capstone design project in Biomedical Engineering completed under the supervision of a faculty member. This design experience will train students to be critical consumers of research conducted in the fields of biomedical engineering and systems. Students will work in teams on projects that may originate from faculty members, students, or external sources.

The final project work is equivalent to two (2) taught courses.

Registration

Students may register in BME598 in any term during their program. Registration in the course is through the registration portal.

Project Types

1. **Individual project**

   Students will complete BME598 individually with a faculty supervisor's help. They will independently complete the final BME598 deliverables (technical report, presentation) and present final project deliverables to an exam committee.

2. **Team project with individual scope**

   Students will complete BME598 with a team of other students. Each student in the team is responsible for delivering a project plan with a unique scope not duplicated by other team members. Each student individually completes the final BME598 deliverables (technical report, presentation) and presents their final project deliverables to an exam committee.

3. **Team project with one scope**

   Students will complete BME598 with a team of other students. All students work on the same project scope and co-author the final BME598 deliverables (technical report, presentation) and present their final project deliverables as a team to an exam committee.

Structure

Students, whether working on an individual or a team project, will be required to define their project and its scope, perform a literature review of key areas, conduct technical engineering work, generate a written report, and present the report orally.

All students must attend regularly scheduled check-ins/classes with the instructor-in-charge.

Assessment

All students, regardless of the type of project they are undertaking, will be required to complete and submit documents as they go through the project phases. Many of these documents will be reviewed and will require the approval of the supervisor and the instructor before students can progress through to the next step or phase.

Please use the checklist below or the progress tracking sheets to plan your progress through the course.

Phase 1 (Month 1)

- ☐ Project Proposal and Scope
- ☐ Project Summary and Team Charter
- ☐ Milestone and critical path planning
- ☐ Team and Peer Review
- ☐ Progress Tracking

Phase 2 (normally Month 2-3)

- ☐ Critical review of literature justifying project scope
- ☐ Revised Project Summary and Team Charter, if applicable, and updated Gantt chart
- ☐ Technical work documentation (progress and key results)
- ☐ Completion of technical engineering work with supervisor sign-off
- ☐ Team and Peer Review
- ☐ Progress Tracking

Phase 3 (Month 4)

- ☐ Technical report outline
- ☐ Final technical report with supervisor sign-off
- ☐ Draft presentation and oral exam planning (checklist for oral exam submitted to graduate secretary)
- ☐ Team and Peer Review
- ☐ Oral exam