Semester_____ Year_____

Student – Faculty Mentor Contract for BIOEN 4200 (BIOEN Research)

Student

Duties

- 80 hours minimum for 1 credit of BIOEN 4200
  - Approximately 6 hours/week
  - See attached rubric for grade breakdown
- Be integrated into a research/design group
  - Make weekly contact with faculty advisor (or representative)
  - Participate in lab culture including attending group meetings
  - Become trained to perform experiments, simulations, or related lab tasks
- Conduct literature review for project
  - Read key papers related to research project under guidance of advisor
- Be actively engaged in the research or design activity
  - Actively participate in experimental/engineering design
  - Conduct experiments, simulations, or designs,
  - Apply statistics to experimentation
- Generate data for papers, posters, and presentations to be used in BIOEN 4201/4202
  - Papers, posters, and presentations will be single author documents in BIOEN 4201/4202
  - Students must not plagiarize, including other lab documents
  - Material submitted for a grade in BIOEN 4201/4202 must be the student's work product and should accurately reflect the student's ability (mentor will not be actively involved)
  - **Submit a 3-5 page research report to the Sr. Project Instructor/Coordinator prior to enrolling in BIOEN 4201. See assignment sheet for details.**

Expectations

- Collect data for senior project
  - Minimum of 200 hours
  - Typically done over several semesters but can be done in one
- Successful completion of BIOEN 4200 (C grade or better) allows enrollment in BIOEN 4201
- Volunteer position unless UROP or other funding is obtained
- **Submit a 3-5 page research report to the Senior Projects Instructor/Coordinator prior to enrolling in BIOEN 4201**

Faculty Advisor

Duties

- Act as a mentor for the student
  - Develop a clearly defined senior project
  - Meet regularly with student
  - Provide direct, regular feedback of student's performance
  - Facilitate lab participation (e.g., be considerate of student's class schedule)
- Provide instruction on bibliography generation
  - Provide three papers to start literature research
  - Instruct student on literature search methodologies
- Provide instruction on lab methodologies
  - Involve student in experimental or engineering design of project
  - Instruct on lab safety and appropriate methodologies for project
  - Introduce appropriate statistical treatment of data and post-hoc analysis
- Provide limited review of papers, posters, and presentations when solicited by the student
  - Papers, posters, and presentations will be single author documents in BIOEN 4201/4202
  - Remind students to be careful to not plagiarize other lab documents
  - Material submitted to BIOEN 4201/4202 must be the student's work product and accurately reflect the student's ability
- Identify intellectual property concerns and develop an appropriate disclosure strategy
  - Student will present work in April of year taking BIOEN 4202
  - The senior symposium in April is considered a public disclosure by USPTO standards

Expectations

- Student will contribute at least 80 hours per credit of BIOEN 4200
- Student will contribute at least 200 hours toward completing senior project
- Student will enhance lab community
- Student has no expectation to be paid for the 200 hours but advisor is not restricted from paying the student

I, the undersigned, hereby acknowledge that I have read and understand the advisor expectations as well as the student expectations and will comply with them to the best of my ability.

Advisor's Name:_____

Advisor Signature:_____ Date:_____

Advisor's Email:_____

Student (print):_____ Date:_____

Student Email:_____ Student ID #:_____