**CHEM 7930 SYLLABUS**

**DIRECTED INDIVIDUAL STUDY**

**Professor (Faculty Name Here)**

OBJECTIVE: To provide graduate students with mentored experience in cutting-edge research in (sub-discipline) chemistry as part of their dissertation or thesis work. This course fulfills part of the Ph.D. or M.S. degree requirements. Ultimately, students will move on to CHEM 7990 or CHEM 8990, where they are expected to take more of a leadership role in the research progress.

NOTE: Graduate students should compile no more than 15 total semester hours of this course.

HOURS: Arranged (typically between 1 and 9 credit hours). Hours will vary from week to week depending upon your place in your project and the type of project on which you are working. As a general rule, long, contiguous blocks of time are more conducive to productivity than short snippets here and there.

SAFETY: It is essential that everyone is up to date on laboratory safety training, particularly graduate researchers in the lab.  Fortunately, this can be taken care of through on-line resources with our Risk Management and Safety (RMS) office. Please see that you complete all relevant training modules.

A link to the training resources for all three of these can be found at the RMS webpage.  I have included the URL below.

<https://cws.auburn.edu/rms/training.aspx>

ROOM: (Building) (Lab Room #)

INSTRUCTOR: Dr. (Faculty Name)

(Building) (Office #)

E-mail: (email)

Phone: (phone)

Office Hours: By Appointment

GRADING: Research Progress 70%

Lab Notebook 30%

Final Grades will be determined based upon a 10-point scale:

90 – 100 A

80 – 89 B

70 – 79 C

60 – 69 D

<60 F

ABSENCES: You are a critical component of a lab team. I expect to be notified in advance if at all possible if you will be unable to work in the laboratory at a time we have arranged.

RESEARCH: Your research progress grade (70% of the final grade) will be based in large part on your time in the laboratory and your progress on your Ph.D. or M.S. project. Consistent progress can be measured by a steady stream of newly collected data, by progress in writing duties, etc. Although not absolutely required, an excellent metric of good progress is the successful publication of one or more peer-reviewed manuscripts at a reputable journal in the field. Other metrics of progress are presentations at regular group meetings, oral or poster presentations at national or international conferences, and creative contributions to the mentor’s research projects.

LAB NOTEBOOK: I expect your notebook (30% of final grade) to be kept up to date. There will be a title, objective, materials and methods, results, and conclusions/ discussion section for each experiment. You will set aside the first few pages of your lab notebook for a table of contents. The laboratory notebook is not to leave the laboratory without my expressed consent. When you finish your research work, your notebook stays within the laboratory to serve as a valuable resource for other students working on similar projects. You are free to make photocopies to take with you, provided they are not part of a proprietary project.

MANUSCRIPTS: Peer-reviewed manuscript format will depend upon the journal. Generally, these will include an abstract, introduction, materials and methods, results, discussion, references, tables (if applicable), figure legends (if applicable), figures (if applicable), and supporting information (if applicable).