Department of Materials Science and Engineering
University of Maryland, College Park, Maryland

1. **ENMA 499– Senior Laboratory Project**

2. **Credits and contact hours – 3 credits.** The University of Maryland follows the Maryland Higher Education Commission's policies on "contact hours;" specifically, one semester hour of credit will be awarded for a minimum of 15 hours, of 50 minutes each of actual class time, exclusive of registration, study days, and holidays.

   Schedule: as determined by faculty

3. **Instructor's or course coordinator's name: various faculty**

4. **Text book, title, author and year:** no text book required

5. **Specific course information**
   a. **Brief description of the content of the course (catalog description):** Students work with a faculty member on an individual laboratory project in one or more of the areas of engineering materials. Students will design and carry out experiments, interpret data and prepare a comprehensive laboratory report.
   b. **Pre-requisites or co-requisites:** senior standing
   c. **Indicate whether a required, elective, or selected elective (as per Table 5-1) course in the program:** ENMA 499 is an elective course for Materials Science and Engineering majors.

6. **Specific goals for the course:**
   a. **Specific outcomes of instruction:** The main objective of this course is the:
      1. Ability to perform an experiment

   b. Explicitly indicate which of the student outcomes listed in Criterion 3 or any other outcomes are addressed in this course.
   ABET B: Ability to design and conduct experiments, analyze and interpret data.
   ABET D: Ability to function on multidisciplinary teams.
   ABET J: Knowledge of contemporary issues.