1. **Course number and name**  
**ENGR 290: An Introduction to Pro Engineering**

2. **Credits and contact hours**  
1 credit hour; Seven 1 hour and 50-minute lecture sessions @ 1 lecture/week for seven weeks.

3. **Instructor’s or course coordinator’s name**  
Course Coordinator: Dipendra K. Sinha, Professor

4. **Text book, title, author, and year**  
Roger Toogood, Pro Engineer Wildfire 2.0 Tutorial and Multimedia CD  

5. **Specific course information**  
   a. **brief description of the content of the course (catalog description)**  
   Concepts of computer aided design (CAD) and solid modeling are reviewed, application and file structure of ProEngineer, application of ProEngineer in solid modeling; students are introduced to interfacing of ProEngineer with analysis and manufacturing software modules.

   b. **prerequisites or co-requisites**  
   ENGR 101 and sophomore

   c. **indicate whether a required, elective, or selected elective course in the program**  
   Required for Mechanical Engineering students

6. **Specific goals for the course**  
   a. **specific outcomes of instruction, ex. The student will be able to explain the significance of current research about a particular topic.**  
   Ability to use modern engineering tools, software, and instrumentation through hands-on experience relevant to their field of specialty

   b. **explicitly indicate which of the student outcomes listed in Criterion 3 or any other outcomes are addressed by the course.**  
   Course addresses ABET Student Outcome(s): k

7. **Brief list of topics to be covered**  
   - User Interface, View Controls and Model Structure  
   - Creating Simple Objects:  
   - Revolved Protrusions, Mirror Copies and Chamfers  
   - Patterns and Copies