Form: Program Plan
For Information Literacy

- *To be completed by each Major Program. See the Undergraduate Catalog for a list of Major Programs.*
- *Plans must be approved by the School/College*
- *Plans are not approved by GEOC but are archived by GEOC for future oversight.*
- *Return the completed form by e-mail to GEOC at geoc@uconn.edu no later than Oct. 15, 2004 AFTER approval by the School/College)*
- *Submit revised catalog copy for major requirements to marianne.buck@uconn.edu by Nov. 1, 2004.*

*Major Program: **Engineering Physics (Revised April 10, 2007)***

Briefly describe how Information Literacy will be taught within your major program. List courses in which these skills will be embedded.

At the freshman level, all Engineering Physics majors will take ENGL 110/111 or the equivalent. This meets all ACRL standards at the basic level.

Engineering Physics students gain additional competency in information literacy as follows.

ACRL Standard I: The information literate student determines the nature and extent of the information needed.

 In the senior design sequence ME272, ME273 (Engineering Physics-Mechanical Engineering, or EngPhys-ME majors); MMAT287, MMAT288 (Engineering Physics-MMAT or EngPhys-MMAT majors); and ECE290, ECE291 (Engineering Physics-Electrical Engineering, or EngPhys-EE majors) students work in teams to solve open-ended design problems. As one step in this process, students develop a strategy and timeline for identifying and assessing information from a variety of sources, including electronic journals, databases, manufacturers and suppliers of components and systems, and the U.S. Patent and Trademark Office, and other electronic sources.

ACRL Standard II: The information literate student accesses needed information effectively and efficiently.

In the senior design sequence ME272, ME273 (EngPhys-ME); MMAT287, MMAT288 (Eng-Phys-MMAT); and ECE290, ECE291 (EngPhys-EE), students will obtain expert opinion from faculty and industrial contacts from within the field of study.

ACRL Standard III: The information literate student evaluates information and its sources critically and incorporates selected information into his/her knowledge base and value system.

Students in the ME272, ME273 (EngPhys-ME); MMAT287, MMAT288 (EngPhys-MMAT); and ECE290, ECE291 (EngPhys-EE) senior design sequence perform a literature and patent search in order to formulate a solution to an open-ended design problem. Following this literature and

patent search they identify common trends, contradictions, and gaps in the available information. This allows them to describe in writing the theoretical and applied background for their design project.

ACRL Standard IV: The information literate student, individually or as a member of a group, uses information effectively to accomplish a specific purpose.

In the senior design sequence ME272, ME273 (EngPhys-ME); MMAT287, MMAT288 (EngPhys-MMAT); and ECE290, ECE291 (EngPhys-EE), each student team implements a hardware/software design to satisfy a set of design specifications. Each team communicates their design and its performance on a team web page. Each team also presents the implementation to their peers and industrial sponsors, both in the laboratory and in a formal oral presentation.

ACRL Standard V: The information literate student understands many of the economic, legal, and social issues surrounding the use of information and accesses and uses information ethically and legally.

Students learn to use the research publication (e.g. IEEE) format for citations, in their writing courses PHYS 258 W, as well as in the senior design sequence ME272, ME273 (EngPhys-ME); MMAT287, MMAT288 (EngPhys-MMAT); and ECE290, ECE291 (EngPhys-EE). All students in the senior design sequence develop an understanding of intellectual property and fair use of copyrighted material.

Are all these courses required of your students? If not, how will you assure that all students attain the exit expectations for Information Literacy.

All courses mentioned above are required for all Engineering Physics students.

Date of Approval by Faculty or Appropriate Faculty Committee __4/17/2007_____

Date of Approval by School / College C&C Committee _____

Major Program contact person: Niloy Dutta (Physics), John Ayers (Engineering)

Date Submitted to GEOC _____