

PROPOSAL TO DESIGNATE AN EXISTING COURSE AS PROVIDING COMPUTER COMPETENCY

UNIVERSITY CURRICULUM COMMITTEE

University of North Carolina at Wilmington

Wilmington, NC 28403

Course Title: Computational Physics and Complexity

Department: Physics & Physical Oceanography

Course Number: PHY 315

Degree(s) for which course(s) will meet competency: B.A., B.S.

***Current Catalogue Description:** *PHY 315. Computational Physics (3) Corequisites: PHY 321 or MAT 361.*

Description of assignment(s) that involve basic computer skills including knowledge of campus use policies, facility with standard applications, and awareness of legal and ethical issues: *Students will be expected to solve physics problems and analyze experimental data with a standard mathematical analysis software program, viz. Mathematica, Matlab, etc. They will be expected to be able to prepare lab reports using standard word-processing software, and must be capable of conducting online research. Students will be expected to familiarize themselves with and abide by campus use policies, as well as contemporary ethical standards regarding the use of copyrighted material.*

How will the computer competency be evaluated?

The skillful use of appropriate analytic software and/or programming languages is intrinsic to problem solving and data analysis and reduction. Homework and Labwork requiring computer-assisted analysis will not be regarded as complete unless those computer-assisted analytic tasks are correctly performed.

*If changes in the catalogue description are indicated, this proposal must first be approved by the appropriate school or college curriculum committee.

Signature of Department Chairperson: _____ Date: _____

Signature of Dean: _____ Date: _____

Action of the University Curriculum Committee: _____

Signature of the UCC Chairperson: _____ Date: _____

UCC Approved: 10/00