

THE COLLEGE OF NEW JERSEY
ACADEMIC EVALUATION

DEGREE REQUIREMENTS (Control Sheet) FOR PHYSICS-PHYC
Computational Physics

NAME _____ SS# _____

Retain this sheet to record progress toward your degree. Eligibility for graduation requires:

- 1) completion of, or testing out of, courses printed below;
- 2) minimum of 42 s.h. earned at TCNJ excluding credit by exam;
- 3) a minimum total of 128 s.h. excluding Basic Skills courses;
- 4) a cumulative Grade Point Average of 2.0;
- 5) completion of all departmental requirements;
- 6) department may set an additional graduation/exit standard requiring a minimum grade of C- in some or all courses required in the major. See department chair.

A. GENERAL EDUCATION REQUIREMENTS 32- 51 S.H.
(Consult 2003-2004 College Catalog or Course Schedule for acceptable courses)

I. INTELLECTUAL SKILLS 0- 19 S.H. _____

GROUP A: ACADEMIC WRITING 4 S.H.

_____ WRI 102 Academic Writing 4

GROUP B: MATHEMATICS 0 - 6 S.H.

___ MATH 127 Calculus I 3 ___ MATH 128 Calculus II 3

GROUP C: FOREIGN LANGUAGES ... (Courses in same language)... 0 - 9 S.H.

Strongly urged to take during the first year.

_____ 3 S.H. _____ 3 S.H. _____ 3 S.H.

II. INTERDISCIPLINARY CORE: UNDERSTANDING HUMANITY 6 S.H. _____

A: ATHENS TO NEW YORK _____ DSC 151 3

B: SOCIETY, ETHICS, AND TECHNOLOGY _____ IDSC 252 3

III. PERSPECTIVES ON THE WORLD 26 S.H. _____

[DIVERSITY DISTRIBUTION Satisfied in A and B below]

Satisfactory completion of 1) Non-Western, Native American, Third World Culture _____, 2) Western Culture _____, and 3) Gender Studies _____.

GROUP A: NATURAL AND SOCIAL SCIENTIFIC PERSPECTIVES 14 S.H.

1. NATURAL SCIENCES: (8 S.H.)

___ CHEM 201 Gen. Chemistry I 4 ___ CHEM 202 Gen. Chemistry II 4

2. SOCIAL SCIENCES: Completion of one approved "Content" course and one approved "Process" course. (6 S.H.) (C) _____ 3 (P) _____ 3

GROUP B: HUMANISTIC AND ARTISTIC PERSPECTIVES 12 S.H.

1. FINE OR PERFORMING ARTS _____ 3 3. LITERATURE _____ 3
2. HISTORY _____ 3 4. PHILOSOPHY/RELIGION _____ 3

PHYC

NAME _____ SS# _____

B. MAJOR REQUIREMENTS..... 68 S.H. _____

- A. Physics Required Courses19
- ___ PHYS 201 General Physics I 4
- ___ PHYS 202 General Physics II 4
- ___ PHYS 321 Modern Physics 4
- ___ PHYS 306 Mathematical Physics 3
- ___ PHYS 311 Elec. Cir & Elctrnics 4

- B. Physics Options.....17
- ___ PHYS 313 Intro to Gen Relativity 3
- ___ PHYS 316 Interm Phys for Med & Bio 3
- ___ PHYS 401 Mechanics 3
- ___ PHYS 411 Optics/Wave Motion 4
- ___ PHYS 421 Electromag Theory I 3
- ___ PHYS 422 Electromag Theory II 3
- ___ PHYS 416 Heat & Thermo 3
- ___ PHYS 426 Particle & Nuclear 3
- ___ PHYS 431 Quantum Mech 3
- ___ PHYS 436 Solid State Phys 3
- ___ PHYS 451 Advanced Lab 2
- ___ Phys 499 Ind Study/Physics var

- C. Related Courses (Required) 17
- ___ MATH 229 Calculus III 3
- ___ MATH 326 Different Eq. 3

or

- ___ MATH 386 Diff Eq./Num Tech 3
- ___ CMSC 215 Computer Sci I 3
- ___ CMSC 220 Comp Prob Sol 4
- ___ CMSC 230 Data Structures 4

**D. Math/Comp. Science Options 12
(min 6 hrs. CMSC)**

- ___ CMSC 210 Discrete Structure 3
- ___ CMSC 325 Comp Arch. 4
- ___ CMSC 340 Prog in Large 4
- ___ CMSC 350 Comp Graphics 3
- ___ CMSC 360 Networks 3
- ___ CMSC 370 Stack Mach. 3
- ___ CMSC 380 Artificial Intell. 3
- ___ CMSC 390 Prog. Lang. 3
- ___ STAT 115 Statistics I 3
- ___ MATH 205 Linear Algebra I 3
- ___ MATH 316 Intr. Probability 3

C. ELECTIVES AND COLLEGE SEMINAR Minimum 9 S.H. _____

- ___ PHYS 099 Physics Introductory Seminar 0

EVALUATOR _____ DATE _____