

THE COLLEGE OF NEW JERSEY
ACADEMIC EVALUATION

DEGREE REQUIREMENTS (Program Planner) FOR MATHEMATICS-MATA

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 120 s.h. excluding Basic Skills courses;
- 4) a cumulative Grade Point Average of 2.0;
- 5) completion of all departmental requirements;
- 6) a minimum of 21 credits in the major must be earned in the dept. and a minimum of 15 of the final 21 must be earned in the department;
- 7) 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 chairperson.

A. GENERAL EDUCATION REQUIREMENTS 32-53 S.H.
(Consult 2003-04 College Catalog or Course Schedule for acceptable courses)

I. INTELLECTUAL SKILLS 0-21 S.H. _____

GROUP A: ACADEMIC WRITING 0-4 S.H.

___ WRI 102 ACADEMIC WRITING 4

GROUP B: MATHEMATICS 0-8 S.H.

___ MAT 127 Calculus A 4 ___ MAT 128 Calculus B 4

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 _____ IDSC 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.) (Required)

Requirement to be filled in by department when approved in Fall 2003

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

MATA

NAME _____ SS# _____

B. MAJOR REQUIREMENTS.....40 S.H. _____

___ MAT 200 Discrete Math	4	MATH Options- 16 s.h.**	
___ MAT 205 Linear Alg.	4	_____	4
___ MAT 229 Multivariable Calc	4	_____	4
___ MAT 305 Abst. Alg.	4	_____	4
___ MAT 402 Real Analysis	4	_____	4
___ MAT 420 Complex Variable	4		

**The 16 s.h. math options can be any MAT course at the 300/400 level except MAT 386. These courses must be chosen so that the following two requirements are satisfied:

- (a) Breadth requirement. A MATA student must successfully complete one of the courses listed by the department as satisfying the breadth requirement.
- (b) Capstone experience requirement. A MATA student must successfully complete either the departmental capstone seminar, a seminar course (the same course cannot also fulfill the breadth requirement in (a)), or an independent project with a departmental faculty member.

The courses satisfying the breadth requirement are Differential Equations, Topology, Geometry, Seminar in Topology and Geometry, and the Seminar in Applied Mathematics.

C. ELECTIVES AND COLLEGE SEMINAR Minimum 27 S.H. _____

___ MATH 099 College Seminar	0		
_____		_____	
_____		_____	
_____		_____	
_____		_____	

EVALUATOR _____ DATE _____