B. S. Mathematics
Applied Mathematics Option Curriculum Sheet

I LOWER DIVISION REQUIREMENTS

Subj	Course	Cr	Grad	Comments
Engl	C	3		English Composition 110C
Engl	C	3		English 211C, 221C or 231C
Engl	L	3		English Literature 112L or 144L or FLET 110L
Hist	H	3		100H, 101H,102H,103H,104H,105H
	G	3		Information Literacy and Research CS 121G
Phil	P E	3		Philosophy 110P,120P,140P,230E, 250E, 303E,344E345E,441E,442E
	A	3		See Note 2 Human Creativity
	N	4		Nature of science sequence. See Note 3. Encouraged to take Phys 231-232N
	N	4		
	T	3		See Note 6
Comm	R	3		Communications 101R, 103R, 112R or 126R
	S	3		Human Behavior See Note 4
	F	3		Foreign Language Requirement See Note 5 for details
	F	3		
Math	162	3		Precalculus I
Math	163	3		Precalculus II
C.S.	150	4		Introduction to Programming

II CORE COURSES
A grade of C+ or better is required in each core course

Subj	Course	Cr	Grade	Comments
Math	211*	4		Calculus I
Math	212	4		Calclulus II
Math	307	3		Ordinary Differential Equations
Math	311W	3		Abstract Algebra
Math	312	4		Calculus III
Math	316	3		Introductory Linear Algebra
Math	317	3		Calculus IV, Introductory Analysis
Stat		3		Stat 330 or 331
Stat		3		Stat 310 or 431

*prerequisites: Math 162 and Math 163 or Math 166

III APPLIED OPTION

Subj.	Course	Cr	Grad	Comments
Math	401	3		Partial Differential Equations
Math	422	3		Applied Complex Variables
Math	408	3		Applied Numerical Methods I
Math		3		
Math		3		9 hours of Math at 400 level; Courses to include at most 3 Hours from Math 400, 404, 406
Math		3		

IV UPPER DIVISION REQUIREMENTS

Option A	(1) Disciplinary Minor or (2) Second Major or (3) Second Degree
Option B	Interdisciplinary Minor
Option C	An approved Certification Program such as teaching Licensure
Option D	Six hours of elective upper division courses from outside the College of Sciences

PRACTICUM

Practicum: Any student who wishes to receive a practicum or internship may do so as an integral part of the degree program. All students are strongly advised to utilize the CAP facility each year. Make an appointment by calling 683-4388.

Overleaf for Applied Math / Math Secondary Options

Please refer to the catalog for more detailed information.

I LOWER DIVISION REQUIREMENTS

1 Students enrolled in the Academic Honors Program are eligible to enroll in other courses that satisfy Lower Division General Education requirements. See the catalog for more details.

2 One of the following courses must be selected:
ART 121A, ART 122A
MUSC 264A
DANC 185A
THEA 241A
COMM/THEA 270A

3 Two courses in difference sciences can be chosen, but two first halves of sequences in the same science cannot be chosen.
BIOL 105N-106N, 108N-109N, 115N-116N
CHEM 105N-106N, 107N-108N, 121N-122N, 123N-124N, 137N-138N
OEAS 106N-107N, 110N or 111N, 112N
PHYS 101N-102N, 103N-104N, 111N-112N, 231N-232N

4 One course from:
ANTR 110S   GEOG 100S, 101S
COMM 200S   POLS 100S, 101S
CRJS 215S   PSYC 201S, 203S
ECON 200S, 201S, 202S   SOC 201S
WMST 201S

5 Students who complete three high school credits in one foreign language or two high school credits in each of two languages are exempt from this requirement. Students who have some foreign language experience but are not exempt from this requirement, may only need to take one course if a score on the CEEB Foreign Language Achievement Test so indicates. All others must take a 101F-102F sequence in any available foreign language.

Any student who graduated from high school prior to June, 1986 is exempt from this requirement. Non-native speakers of English who were required to meet University TOEFL requirements are also exempt from this requirement.

Please consult the catalog for complete details.

6 One of the following courses:
COMM 372T, CS 300T, DNTH 440T, ENGL 307T
GEOG 306T, HIST 304T, 389T, HIST/SCI 386T, IT 360T,
MUSC 335T, PHIL 383T, POLS 350T, STEM 110T, 370T,
WMST 390T

II CORE COURSES

1 MATH 211-212 is the freshman calculus sequence. It is a prerequisite to **all** other math courses.

2 MATH 307, 312 may be taken in either order or at the same time.

Virginia Community College Transfer Guide
A student who has been awarded an associates degree (A.A., A.S., or A.A. & S.) from a Virginia community college will be considered to have met Old Dominion University's lower-division general education requirements. Otherwise, Math courses from a community college transfer in according to the following table.

MATHEMATICS (MTH)

TRANSFERABLE COURSES AT VIRGINIA COMMUNITY COLLEGES	2000-2002 OLD DOMINION UNIVERSITY EQUIVALENTS
MTH 146	STAT 130M
MTH 157	STAT 130M
MTH 158	MATH 102M
MTH 163-164	MATH 162M-163
MTH 166	MATH 166
MTH 173-174	MATH 211-212
MTH 240	STAT 130M
MTH 241	STAT 130M
MTH 270	MATH 200
MTH 271	MATH 200

NOTE: All other 100 and 200 level MTH courses are transferable as lower level math electives. Students should be aware that community college mathematics courses will not transfer to Old Dominion University at or above the 300 level and, in particular, will not convey upper-division General Education mathematics credit.