

2018 Bachelor of Science in Applied Mathematics Curriculum

FIRST YEAR

First Semester

AMAT 19	Finite Mathematics	3
MATH 36	Mathematical Analysis I	5
BIO 11.1	Investigative Biology Laboratory	2
KAS 1 or HIST 1	Kasaysayan ng Pilipinas or Philippine History	3
ETHICS 1	Ethics and Moral Reasoning	3
HK 11	Wellness and Basic Injury Management	(2)
		16

Second Semester

MATH 37	Mathematical Analysis II <i>Pr MATH 36</i>	3
STAT 101	Statistical Methods	3
CHEM 18	University Chemistry	3
CHEM 18.1	University Chemistry Laboratory <i>Pr CHEM 18 (can be concurrent)</i>	2
ARTS 1	Critical Perspective in the Arts	3
GE Elective		3
HK 12 or HK 13		(2)
		17

SECOND YEAR

First Semester

AMAT 110	Mathematical Modeling <i>Pr MATH 37</i>	3
MATH 38	Mathematical Analysis III <i>Pr MATH 37</i>	5
MATH 101	Logic and Set Theory <i>Pr MATH 27/MATH 37 and AMAT 19/MATH 20</i>	3
PHYS 51	Elements of Physics	4
PHYS 51.1	Elements of Physics Laboratory <i>Pr PHYS 51 (can be concurrent)</i>	1
HK 12 or HK 13		(2)
NSTP 1		(3)
		16

Second Semester

AMAT 105	Matrices and Applications <i>Pr MATH 38 or MATH 28</i>	3
AMAT 112	Introduction to Mathematical Optimization <i>Pr AMAT 110 and MATH 38</i>	3
AMAT 152	Fundamentals of Mathematical Computing <i>Pr MATH 38 or MATH 28</i>	3
AMAT 170	Theory of Interest <i>Pr MATH 27 or MATH 37</i>	3
STS 1	Science, Technology and Society	3
GE Elective		3
HK 12 or HK 13		(2)
NSTP 2		(3)
		18

HK 12. Human Kinetics Activities

HK 13. Advanced Human Kinetics Activities

NSTP. National Service Training Program
(ROTC or CWTS or LTS)

THIRD YEAR

First Semester

MATH 151	Ordinary Differential Equations <i>Pr MATH 38 or MATH 28</i>	3
MATH 174	Numerical Analysis I <i>Pr AMAT 152</i>	3
MATH 181	Introduction to Probability Theory <i>Pr MATH 28 or MATH 38 and MATH 101</i>	3
AMAT/MATH Major Elective		3
COMM 10	Critical Perspectives in Communication	3
GE Elective		3
		18

Second Semester

MATH 155	Advanced Calculus I <i>Pr MATH 38 and MATH 101</i>	3
MATH 175	Numerical Analysis II <i>Pr MATH 174</i>	3
MATH 195	Research Methods in Mathematics <i>Pr MATH 38 and MATH 101</i>	3
AMAT/MATH Major Elective		3
COMA 150	Workplace Communication	3
		15

Midyear

AMAT 198	Practicum <i>Pr COI</i>	3
		3

FOURTH YEAR

Thesis Option

First Semester

AMAT 200	Undergraduate Thesis <i>Pr COI</i>	3
AMAT/MATH Major Elective		3
PI 10	The Life and Works of Jose Rizal	3
Elective		3
Elective		3
		15

Second Semester

AMAT 200	Undergraduate Thesis <i>Pr COI</i>	3
AMAT 199	Undergraduate Seminar <i>Pr COI</i>	1
AMAT/MATH Major Elective		3
Elective		3
Elective		3
		13

Special Problem Option

First Semester

AMAT/MATH Major Elective		3
AMAT/MATH Major Elective		3
PI 10	The Life and Works of Jose Rizal	3
Elective		3
Elective		3
		15

Second Semester

AMAT 190	Special Problems <i>Pr COI</i>	3
AMAT 199	Undergraduate Seminar <i>Pr COI</i>	1
AMAT/MATH Major Elective		3
Elective		3
Elective		3
		13

GE Plan of Study is accomplished in the First Semester of the First Year.

GE Electives should be reflected in the approved GE Plan of Study.

BS AMAT Plan of Study is accomplished in the Second Semester of the Second Year.

The research option for the Fourth Year should be indicated in the BS AMAT Plan of Study.

AMAT/MATH Major Electives are chosen from a recommended list of courses.

AMAT/MATH Major Elective and other Elective courses should be reflected in the approved BS AMAT Plan of Study.

Total Number of Units = 131