

2018 Bachelor of Science in Mathematics & Science Teaching (Major in Biology) Curriculum

FIRST YEAR

First Semester

MST 101a	Field Study I	1
BIO 11.1	Investigative Biology Laboratory	2
CHEM 18	University Chemistry	3
CHEM 18.1	University Chemistry Laboratory <i>Pr CHEM 18 (can be concurrent)</i>	2
PHYS 50	Foundations of Physics	3
MATH 25	Fundamental Calculus	3
STS 1	Science, Technology and Society	3
PI 10	The Life and Works of Jose Rizal	3
HK 11	Wellness and Basic Injury Management	(2)

*common curriculum in the First Year

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Second Semester

MST 101b	Field Study II	1
BIO 14	Biodiversity <i>Pr BIO 11.1</i>	5
CHEM 40	University Chemistry <i>Pr CHEM 18 & 18.1</i>	4
CHEM 40.1	University Chemistry Laboratory <i>Pr CHEM 40 (can be concurrent)</i>	1
AMAT 19	Finite Mathematics	3
MATH 27	Analytic Geometry and Calculus II	3
KAS 1 or HIST 1	Kasaysayan ng Pilipinas or Philippine History	3
HK 12 or 13	Human Kinetics Activities or Advanced Human Kinetics Activities	(2)

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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 MST Plan of Study is accomplished in the Second Semester of the First Year.

The choice of Major should be reflected in the approved BS MST Plan of Study.

Major in BIOLOGY

SECOND YEAR

First Semester

MST 101c	Field Study III	1
EDUC 102	Theories and Principles of Education <i>Pr COI</i>	3
EDUC 111	Educational Psychology <i>Pr COI</i>	3
BIO 30	Genetics	3
STAT 166	Statistics for the Social Sciences	3
SPCM 156	Speech Communication Strategies for Classroom Instructions	3
ETHICS 1	Ethics and Moral Reasoning	3
HK 12 or 13	Human Kinetics Activities or Advanced Human Kinetics Activities	(2)
NSTP 1	National Service Training Program (ROTC or CWTS or LTS)	(3)

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Second Semester

MST 101d	Field Study IV	1
DEVC 40 / MST 40	Fundamentals of Educational Communication and Technology <i>Pr DEVC 11 or COI</i>	3
EDUC 122	Principles and Strategies of Teaching <i>Pr COI</i>	3
BOT 14	University Botany	3
CHEM 160	Introductory Biochemistry <i>Pr CHEM 40 & 40.1 or CHEM 44 & 44.1 or COI</i>	3
PHYS 71	University Physics I	4
PHYS 71.1	University Physics I Laboratory <i>Pr PHYS 71 (can be concurrent)</i>	1
COMA 150	Workplace Communication	3
HK 12 or 13	Human Kinetics Activities or Advanced Human Kinetics Activities	(2)
NSTP 2	National Service Training Program (ROTC or CWTS or LTS)	(3)

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THIRD YEAR

First Semester

MST 123	The Teaching of Mathematics and Science <i>Pr EDUC 122 and DEVC 40/MST 40</i>	5
EDUC 144	Evaluation of Learning Outcomes <i>Pr COI</i>	3
BIO 150	Ecology	4
MCB 11	Biology and Applications of Microorganisms	3
ZOO 14	University Zoology	3
STAT 162	Experimental Designs	3

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Second Semester

MST 195	Research Methodologies in Education <i>Pr STAT 166</i>	3
MST 199	Undergraduate Seminar	1
MST 200a	Student Teaching I (on campus) <i>Pr MST 101a,b,c,d and MST 123</i>	3
MATH 18	College Geometry	3
COMM 10	Critical Perspectives in Communication	3
GE Elective		3

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FOURTH YEAR

First Semester

MST 190	Special Problem <i>Pr COI</i>	3
MST 191	Special Topics <i>Pr COI</i>	3
MST 200b	Student Teaching I (off campus) <i>Pr MST 200a</i>	3
ARTS 1	Critical Perspective in the Arts	3
GE Elective		3

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Second Semester

HFDS 12	Human Physiology <i>Pr BIO 14</i>	3
PHYS 72	University Physics II <i>Pr PHYS 71</i>	4
PHYS 72.1	University Physics II Laboratory <i>Pr PHYS 72 (can be concurrent) and PHYS 71.1</i>	1
GE Elective		3

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Total Number of Units = 141

2018 Bachelor of Science in Mathematics & Science Teaching (Major in Chemistry) Curriculum

FIRST YEAR

First Semester

MST 101a	Field Study I	1
BIO 11.1	Investigative Biology Laboratory	2
CHEM 18	University Chemistry	3
CHEM 18.1	University Chemistry Laboratory <i>Pr CHEM 18 (can be concurrent)</i>	2
PHYS 50	Foundations of Physics	3
MATH 25	Fundamental Calculus	3
STS 1	Science, Technology and Society	3
PI 10	The Life and Works of Jose Rizal	3
HK 11	Wellness and Basic Injury Management	(2)

*common curriculum in the First Year

20

Second Semester

MST 101b	Field Study II	1
BIO 14	Biodiversity <i>Pr BIO 11.1</i>	5
CHEM 40	University Chemistry <i>Pr CHEM 18 & 18.1</i>	4
CHEM 40.1	University Chemistry Laboratory <i>Pr CHEM 40 (can be concurrent)</i>	1
AMAT 19	Finite Mathematics	3
MATH 27	Analytic Geometry and Calculus II	3
KAS 1 or HIST 1	Kasaysayan ng Pilipinas or Philippine History	3
HK 12 or 13	Human Kinetics Activities or Advanced Human Kinetics Activities	(2)

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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 MST Plan of Study is accomplished in the Second Semester of the First Year.

The choice of Major should be reflected in the approved BS MST Plan of Study.

Major in CHEMISTRY

SECOND YEAR

First Semester

MST 101c	Field Study III	1
EDUC 102	Theories and Principles of Education <i>Pr COI</i>	3
CHEM 32	Quantitative Inorganic Analysis <i>Pr CHEM 18 & 18.1</i>	3
CHEM 32.1	Quantitative Inorganic Analysis Laboratory <i>Pr CHEM 18 (can be concurrent)</i>	2
BIO 30	Genetics	3
STAT 162	Experimental Designs	3
SPCM 156	Speech Communication Strategies for Classroom Instructions	3
ETHICS 1	Ethics and Moral Reasoning	3
HK 12 or 13	Human Kinetics Activities or Advanced Human Kinetics Activities	(2)
NSTP 1	National Service Training Program (ROTC or CWTS or LTS)	(3)

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Second Semester

MST 101d	Field Study IV	1
EDUC 122	Principles and Strategies of Teaching <i>Pr COI</i>	3
DEVC 40 / MST 40	Fundamentals of Educational Communication and Technology <i>Pr DEVC 11 or COI</i>	3
CHEM 160	Introductory Biochemistry <i>Pr CHEM 40 & 40.1 or CHEM 44 & 44.1 or COI</i>	3
PHYS 71	University Physics I	4
PHYS 71.1	University Physics I Laboratory <i>Pr PHYS 71 (can be concurrent)</i>	1
STAT 166	Statistics for the Social Sciences	3
COMA 150	Workplace Communication	3
HK 12 or 13	Human Kinetics Activities or Advanced Human Kinetics Activities	(2)
NSTP 2	National Service Training Program (ROTC or CWTS or LTS)	(3)

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THIRD YEAR

First Semester

MST 123	The Teaching of Mathematics and Science <i>Pr EDUC 122 and DEVC 40/MST 40</i>	5
EDUC 111	Educational Psychology <i>Pr COI</i>	3
CHEM 160.1	Introductory Biochemistry Laboratory <i>Pr CHEM 160 (can be concurrent)</i>	3
PHYS 72	University Physics II <i>Pr PHYS 71</i>	4
PHYS 72.1	University Physics II Laboratory <i>Pr PHYS 72 (can be concurrent) and PHYS 71.1</i>	1

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Second Semester

MST 195	Research Methodologies in Education <i>Pr STAT 166</i>	3
MST 200a	Student Teaching I (on campus) <i>Pr MST 101a,b,c,d and MST 123</i>	3
EDUC 144	Evaluation of Learning Outcomes <i>Pr COI</i>	3
CHEM 102	Elementary Physical Chemistry <i>Pr CHEM 18</i>	3
COMM 10	Critical Perspectives in Communication	3
MATH 18	College Geometry	3
GE Elective		3

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FOURTH YEAR

First Semester

MST 190	Special Problem <i>Pr COI</i>	3
MST 200b	Student Teaching I (off campus) <i>Pr MST 200a</i>	3
CHEM 180	General Environmental Chemistry <i>Pr CHEM 40 or CHEM 44</i>	3
ARTS 1	Critical Perspective in the Arts	3
GE Elective		3

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Second Semester

MST 191	Special Topics <i>Pr COI</i>	3
MST 199	Undergraduate Seminar	1
GE Elective		3

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Total Number of Units = 140

2018 Bachelor of Science in Mathematics & Science Teaching (Major in Mathematics) Curriculum

FIRST YEAR

First Semester

MST 101a	Field Study I	1
BIO 11.1	Investigative Biology Laboratory	2
CHEM 18	University Chemistry	3
CHEM 18.1	University Chemistry Laboratory <i>Pr CHEM 18 (can be concurrent)</i>	2
PHYS 50	Foundations of Physics	3
MATH 25	Fundamental Calculus	3
STS 1	Science, Technology and Society	3
PI 10	The Life and Works of Jose Rizal	3
HK 11	Wellness and Basic Injury Management	(2)

*common curriculum in the First Year

20

Second Semester

MST 101b	Field Study II	1
BIO 14	Biodiversity <i>Pr BIO 11.1</i>	5
CHEM 40	University Chemistry <i>Pr CHEM 18 & 18.1</i>	4
CHEM 40.1	University Chemistry Laboratory <i>Pr CHEM 40 (can be concurrent)</i>	1
AMAT 19	Finite Mathematics	3
MATH 27	Analytic Geometry and Calculus II	3
KAS 1 or HIST 1	Kasaysayan ng Pilipinas or Philippine History	3
HK 12 or 13	Human Kinetics Activities or Advanced Human Kinetics Activities	(2)

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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 MST Plan of Study is accomplished in the Second Semester of the First Year.

The choice of Major should be reflected in the approved BS MST Plan of Study.

Major in MATHEMATICS

SECOND YEAR

First Semester

MST 101c	Field Study III	1
EDUC 102	Theories and Principles of Education <i>Pr COI</i>	3
EDUC 111	Educational Psychology <i>Pr COI</i>	3
MATH 20	The Landscape of Mathematics	3
MATH 28	Analytic Geometry and Calculus III <i>Pr MATH 27</i>	3
BIO 30	Genetics	3
ETHICS 1	Ethics and Moral Reasoning	3
HK 12 or 13	Human Kinetics Activities or Advanced Human Kinetics Activities	(2)
NSTP 1	National Service Training Program (ROTC or CWTS or LTS)	(3)

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Second Semester

MST 101d	Field Study IV	1
EDUC 122	Principles and Strategies of Teaching <i>Pr COI</i>	3
DEVC 40 / MST 40	Fundamentals of Educational Communication and Technology <i>Pr DEVC 11 or COI</i>	3
MATH 18	College Geometry	3
MATH 101	Logic and Set Theory <i>Pr MATH 27/MATH 37 and AMAT 19/MATH 20</i>	3
STAT 166	Statistics for the Social Sciences	3
COMA 150	Workplace Communication	3
HK 12 or 13	Human Kinetics Activities or Advanced Human Kinetics Activities	(2)
NSTP 2	National Service Training Program (ROTC or CWTS or LTS)	(3)

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THIRD YEAR

First Semester

MST 123	The Teaching of Mathematics and Science <i>Pr EDUC 122 and DEVC 40/MST 40</i>	5
EDUC 144	Evaluation of Learning Outcomes <i>Pr COI</i>	3
PHYS 71	University Physics I	4
PHYS 71.1	University Physics I Laboratory <i>Pr PHYS 71 (can be concurrent)</i>	1
STAT 162	Experimental Designs	3
SPCM 156	Speech Communication Strategies for Classroom Instructions	3

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Second Semester

MST 195	Research Methodologies in Education <i>Pr STAT 166</i>	3
MST 200a	Student Teaching I (on campus) <i>Pr MST 101a,b,c,d and MST 123</i>	3
MATH 103	Elementary Theory of Numbers <i>Pr MATH 101</i>	3
PHYS 72	University Physics II <i>Pr PHYS 71</i>	4
PHYS 72.1	University Physics II Laboratory <i>Pr PHYS 72 (can be concurrent) and PHYS 71.1</i>	1
COMM 10	Critical Perspectives in Communication	3
GE Elective		3

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FOURTH YEAR

First Semester

MST 190	Special Problem <i>Pr COI</i>	3
MST 200b	Student Teaching I (off campus) <i>Pr MST 200a</i>	3
CHEM 160	Introductory Biochemistry <i>Pr CHEM 40 & 40.1 or CHEM 44 & 44.1 or COI</i>	3
ARTS 1	Critical Perspective in the Arts	3
GE Elective		3

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Second Semester

MST 191	Special Topics <i>Pr COI</i>	3
MST 199	Undergraduate Seminar	1
AMAT 105	Matrices and Applications <i>Pr MATH 38 or MATH 28</i>	3
GE Elective		3

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Total Number of Units = 142

2018 Bachelor of Science in Mathematics & Science Teaching (Major in Physics) Curriculum

FIRST YEAR

First Semester

MST 101a	Field Study I	1
BIO 11.1	Investigative Biology Laboratory	2
CHEM 18	University Chemistry	3
CHEM 18.1	University Chemistry Laboratory <i>Pr CHEM 18 (can be concurrent)</i>	2
PHYS 50	Foundations of Physics	3
MATH 25	Fundamental Calculus	3
STS 1	Science, Technology and Society	3
PI 10	The Life and Works of Jose Rizal	3
HK 11	Wellness and Basic Injury Management	(2)

*common curriculum in the First Year

20

Second Semester

MST 101b	Field Study II	1
BIO 14	Biodiversity <i>Pr BIO 11.1</i>	5
CHEM 40	University Chemistry <i>Pr CHEM 18 & 18.1</i>	4
CHEM 40.1	University Chemistry Laboratory <i>Pr CHEM 40 (can be concurrent)</i>	1
AMAT 19	Finite Mathematics	3
MATH 27	Analytic Geometry and Calculus II	3
KAS 1 or HIST 1	Kasaysayan ng Pilipinas or Philippine History	3
HK 12 or 13	Human Kinetics Activities or Advanced Human Kinetics Activities	(2)

20

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 MST Plan of Study is accomplished in the Second Semester of the First Year.

The choice of Major should be reflected in the approved BS MST Plan of Study.

Major in PHYSICS

SECOND YEAR

First Semester

MST 101c	Field Study III	1
EDUC 102	Theories and Principles of Education <i>Pr COI</i>	3
EDUC 111	Educational Psychology <i>Pr COI</i>	3
PHYS 71	University Physics I	4
PHYS 71.1	University Physics I Laboratory <i>Pr PHYS 71 (can be concurrent)</i>	1
BIO 30	Genetics	3
MATH 18	College Geometry	3
ETHICS 1	Ethics and Moral Reasoning	3
HK 12 or 13	Human Kinetics Activities or Advanced Human Kinetics Activities	(2)
NSTP 1	National Service Training Program (ROTC or CWTS or LTS)	(3)

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Second Semester

MST 101d	Field Study IV	1
EDUC 122	Principles and Strategies of Teaching <i>Pr COI</i>	3
DEVC 40 / MST 40	Fundamentals of Educational Communication and Technology <i>Pr DEVC 11 or COI</i>	3
PHYS 72	University Physics II <i>Pr PHYS 71</i>	4
PHYS 72.1	University Physics II Laboratory <i>Pr PHYS 72 (can be concurrent) and PHYS 71.1</i>	1
CHEM 160	Introductory Biochemistry <i>Pr CHEM 40 & 40.1 or CHEM 44 & 44.1 or COI</i>	3
STAT 162	Experimental Designs	3
COMA 150	Workplace Communication	3
HK 12 or 13	Human Kinetics Activities or Advanced Human Kinetics Activities	(2)
NSTP 2	National Service Training Program (ROTC or CWTS or LTS)	(3)

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THIRD YEAR

First Semester

MST 123	The Teaching of Mathematics and Science <i>Pr EDUC 122 and DEVC 40/MST 40</i>	5
EDUC 144	Evaluation of Learning Outcomes <i>Pr COI</i>	3
APHY 101	Physics in Scientific Instruments <i>Pr PHYS 72 & 72.1 or PHYS 102 & 102.1</i>	3
STAT 166	Statistics for the Social Sciences	3
SPCM 156	Speech Communication Strategies for Classroom Instructions	3
GE Elective		

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Second Semester

MST 195	Research Methodologies in Education <i>Pr STAT 166</i>	3
MST 200a	Student Teaching I (on campus) <i>Pr MST 101a,b,c,d and MST 123</i>	3
APHY 102	Physics of Electronic Devices <i>Pr PHYS 72 & 72.1 or PHYS 102 & 102.1</i>	3
PHYS 192.1	Experimental Physics I <i>Pr PHYS 72 & 72.1 or PHYS 104 & 104.1</i>	2
CMSC 12	Foundations of Computer Science	3
COMM 10	Critical Perspectives in Communication	3

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FOURTH YEAR

First Semester

MST 190	Special Problem <i>Pr COI</i>	3
MST 199	Undergraduate Seminar	1
MST 200b	Student Teaching I (off campus) <i>Pr MST 200a</i>	3
PHYS 193.1	Experimental Physics II <i>Pr PHYS 72 & 72.1 or PHYS 104 & 104.1</i>	2
ARTS 1	Critical Perspective in the Arts	3
GE Elective		3

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Second Semester

MST 191	Special Topics <i>Pr COI</i>	3
GE Elective		3

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Total Number of Units = 140