

Bachelor of Secondary Education Major in Mathematics

Program Study, Effective A.Y. 2021-2022

FIRST YEAR

COURSE CODE	FIRST SEMESTER	UNITS	PRE-REQ
	COURSE TITLE		
GEN-MM	Mathematics in the Modern World	3	
GEN-PC	Purposive Communication	3	
MTH111	History of Math	3	
PED111	The Child and Adolescent Learner and Learning Principles	3	
PED112	Foundations of Special and Inclusive Education	3	
PE1	Physical Activities towards Health and Fitness 1	2	
PEP1	Personality Development	1	
NSTP 1	National Service Training Program 1	3	
GENE-RES	Religious Experiences and Spirituality (Benedictine Spirituality)	3	
		24	

COURSE CODE	SECOND SEMESTER	UNITS	PRE-REQ
	COURSE TITLE		
GEN-RP	Readings in Philippine History	3	
GEN-SS	Science, Technology and Society	3	
MTH122	College and Advanced Algebra	3	
PED123	The Teaching Profession	3	
PED124	Facilitating Learner Centered Teaching	3	
PE2	Physical Activities towards Health and Fitness 2	2	PE1
PEP2	Human Relations Development	1	
NSTP 2	National Service Training Program 2	3	NSTP1
THEO1-NT	Jesus in the New Testament and Contemporary Time	3	
		24	

SECOND YEAR

COURSE CODE	FIRST SEMESTER	UNITS	PRE-REQ
	COURSE TITLE		
GENE-ICC	Indigenous Creative Crafts	3	
MTH213	Trigonometry	3	MTH122
MTH214	Logic and Set Theory	3	
MTH215	Elementary Statistics & Probability	3	
PED215	Technology for Teaching and Learning 1	3	
PED216	Assessment of Learning 1	3	
PE3	Physical Activities towards Health and Fitness 3	2	PE1, PE2
THEO2-CS	The Church, Sacraments and its Mission	3	THEO1-NTC
		23	

COURSE CODE	SECOND SEMESTER	UNITS	PRE-REQ
	COURSE TITLE		
GENE-LIE	Living in the IT Era	3	
MTH226	Plane and Solid Geometry	3	MTH122
MTH227	Mathematics of Investment	3	MTH122
MTH228	Number Theory	3	MTH122, MTH214
MTH229	Advanced Statistics	3	MTH215
PED227	Assessment of Learning 2	3	
PE4	Physical Activities towards Health and Fitness 4	2	PE1, PE2
GEN-ET	Ethics (Being and Society)	3	
		23	

THIRD YEAR

COURSE CODE	FIRST SEMESTER	UNITS	PRE-REQ
	COURSE TITLE		
GEN-US	Understanding the Self	3	
MTH3110	Modern Geometry	3	MTH226, MTH214
MTH3111	Linear Algebra	3	MTH214
MTH3112	Instrumentation & Technology in Mathematics	3	MTH214, PED215
MTH3113	Calculus 1 with Analytic Geometry	4	MTH213, MTH226
PED318	The Teacher and the Community, School Culture and Organizational Leadership	3	
PED319	The Teacher and the School Curriculum	3	
THEO3-FAM	Marriage and Family Life	3	THEO2-CSM
		25	

COURSE CODE	SECOND SEMESTER	UNITS	PRE-REQ
	COURSE TITLE		
GEN-JR	The Life and Works of Rizal	3	
MTH3214	Calculus 2	4	MTH3113
MTH3215	Abstract Algebra	3	MTH214
MTH3216	Principles & Strategies in Teaching Mathematics	3	
MTH3217	Research in Mathematics 1	3	MTH229
PED3210	Building and Enhancing New Literacies Across the Curriculum	3	
REL321	Field Study 1	3	
		22	

FOURTH YEAR

COURSE CODE	FIRST SEMESTER	UNITS	PRE-REQ
	COURSE TITLE		
GEN-AA	Art Appreciation	3	
GEN-CW	The Contemporary World	3	
MTH4118	Research in Mathematics 2	3	MTH3217
MTH4119	Calculus 3	4	MTH3214
MTH4120	Problem Solving, Mathematical Investigation & Modeling	3	MTH226, MTH214
REL412	Field Study 2	3	REL321
THEO4-CS	Social Teachings of the Church and Benedictine Lay Apostolate	3	THEO3-FAM
		22	

COURSE CODE	SECOND SEMESTER	UNITS	PRE-REQ
	COURSE TITLE		
MTH4221	Assessment & Evaluation in Mathematics	3	MTH229
REL423	Teaching Internship	6	REL412
SEDME421	Multicultural Education	3	
SYN	Synthesis	1	
		13	

San Beda College Alabang

College of Arts and Sciences

Bachelor of Secondary Education Major in Mathematics

2021 Curriculum

SUMMARY OF UNITS

CORE PROFESSION EDUCATION

A. Foundation Courses/Theories and Concepts

CODE	TITLE	UNITS
PED111	The Child and Adolescent Learner and Learning Principles	3
PED112	Foundations of Special and Inclusive Education	3
PED123	The Teaching Profession	3
PED318	The Teacher and the Community, School Culture and Organizational Leadership	3
		12

B. Pedagogical Content Knowledge

CODE	TITLE	UNITS
PED124	Facilitating Learner Centered Teaching	3
PED215	Assessment of Learning 1	3
PED216	Technology for Teaching and Learning 1	3
PED227	Assessment of Learning 2	3
PED319	The Teacher and the School Curriculum	3
PED3210	Building and Enhancing New Literacies Across the Curriculum	3
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SPECIALIZATION COURSES

CODE	TITLE	UNITS
MTH111	History of Math	3
MTH122	College and Advanced Algebra	3
MTH213	Trigonometry	3
MTH214	Logic and Set Theory	3
MTH215	Elementary Statistics & Probability	3
MTH226	Plane and Solid Geometry	3
MTH227	Mathematics of Investment	3
MTH228	Number Theory	3
MTH229	Advanced Statistics	3
MTH3110	Modern Geometry	3
MTH3111	Linear Algebra	3
MTH3112	Instrumentation & Technology in Mathematics	3
MTH3113	Calculus 1 with Analytic Geometry	4
MTH3214	Calculus 2	4
MTH3215	Abstract Algebra	3
MTH3216	Principles & Strategies in Teaching Mathematics	3
MTH3217	Research in Mathematics 1	3
MTH4118	Research in Mathematics 2	3
MTH4119	Calculus 3	4
MTH4120	Problem Solving, Mathematical Investigation & Modeling	3
MTH4221	Assessment & Evaluation in Mathematics	3
		66

RELATED EXPERIENTIAL LEARNING

CODE	TITLE	UNITS
REL321	Field Study 1	3
REL412	Field Study 2	3
REL423	Teaching Internship	6
		12

SUPPLEMENTAL

CODE	TITLE	UNITS
SYN	Synthesis	1
SEDME421	Multicultural Education	3
		4

GENERAL EDUCATION

CODE	TITLE	UNITS
GEN-US	Understanding the Self	3
GEN-MM	Mathematics in the Modern World	3
GEN-SS	Science, Technology and Society	3
GEN-PC	Purposive Communication	3
GEN-RP	Readings in Philippine History	3
GEN-AA	Art Appreciation	3
GEN-CW	The Contemporary World	3
GEN-JR	The Life and Works of Rizal	3
GEN-ET	Ethics (Being and Society)	3
		27

GENERAL EDUCATION ELECTIVES

CODE	TITLE	UNITS
GENE-ICC	Indigenous Creative Crafts	3
GENE-RES	Religious Experiences and Spirituality (Benedictine Spirituality)	3
GENE-LIE	Living in the IT Era	3
		9

PHYSICAL EDUCATION

CODE	TITLE	UNITS
PE1	Physical Activities towards Health and Fitness 1	2
PE2	Physical Activities towards Health and Fitness 2	2
PE3	Physical Activities towards Health and Fitness 3	2
PE4	Physical Activities towards Health and Fitness 4	2
		8

NATIONAL SERVICE TRAINING PROGRAM

CODE	TITLE	UNITS
NSTP1	National Service Training Program 1	3
NSTP2	National Service Training Program 2	3
		6

INSTITUTIONAL SUBJECTS:

Theology

CODE	TITLE	UNITS
THEO1-NTC	Jesus in the New Testament and Contemporary Times	3
THEO2-CSM	The Church, Sacraments and its Mission	3
THEO3-FAM	Marriage and Family Life	3
THEO4-CST	Social Teachings of the Church and Benedictine Lay Apostolate	3
		12

Personality Enrichment Program

CODE	TITLE	UNITS
PEP1	Personality Development	1
PEP2	Human Relations Development	1
		2

TITLE	UNITS	
Core Professional Education	30	
Specialization Courses	66	
Experiential Learning	12	
Supplemental	4	
General Education	27	
General Education Electives	9	
Physical Education	8	
National Service Training Program	6	
Institutional Subjects	14	
		176

San Beda College Alabang

College of Arts and Sciences

Bachelor of Secondary Education Major in General Science

Program Study, Effective A.Y. 2021-2022

FIRST YEAR

COURSE CODE	FIRST SEMESTER	UNITS	PRE-REQ
	COURSE TITLE		
GEN-MM	Mathematics in the Modern World	3	
GEN-PC	Purposive Communication	3	
PED111	The Child and Adolescent Learner and Learning Principles	3	
PED112	Foundations of Special and Inclusive Education	3	
SCI111	CHEM1:Inorganic Chemistry	5	
PE1	Physical Activities towards Health and Fitness 1	2	
PEP1	Personality Development	1	
NSTP 1	National Service Training Program 1	3	
GENE-RES	Religious Experiences and Spirituality (Benedictine Spirituality)	3	

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COURSE CODE	SECOND SEMESTER	UNITS	PRE-REQ
	COURSE TITLE		
GEN-RP	Readings in Philippine History	3	
GEN-SS	Science, Technology and Society	3	
PED123	The Teaching Profession	3	
PED124	Facilitating Learner Centered Teaching	3	
SCI122	PHYS1: Fluid Mechanics	3	
PE2	Physical Activities towards Health and Fitness 2	2	PE1
PEP2	Human Relations Development	1	
NSTP 2	National Service Training Program 2	3	NSTP1
THEO1-NTC	Jesus in the New Testament and Contemporary Time	3	

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SECOND YEAR

COURSE CODE	FIRST SEMESTER	UNITS	PRE-REQ
	COURSE TITLE		
GENE-ICC	Indigenous Creative Crafts	3	
PED215	Technology for Teaching and Learning 1	3	
PED216	Assessment of Learning 1	3	
SCI213	CHEM2:Analytical Chemistry	5	SCI111
SCI214	Earth Science	3	
SCI215	BIO2: Cell and Molecular Biology	4	
PE3	Physical Activities towards Health and Fitness 3	2	PE1, PE2
THEO2-CSM	The Church, Sacraments and its Mission	3	THEO1-NTC

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COURSE CODE	SECOND SEMESTER	UNITS	PRE-REQ
	COURSE TITLE		
GENE-LIE	Living in the IT Era	3	
PED227	Assessment of Learning 2	3	
SCI226	Environmental Science	3	
SCI227	PHYS2: Thermodynamics	4	SCI122
SCI228	BIO1: Genetics	4	SCI215
PE4	Physical Activities towards Health and Fitness 4	2	PE1, PE2
GEN-ET	Ethics (Being and Society)	3	

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THIRD YEAR

COURSE CODE	FIRST SEMESTER	UNITS	PRE-REQ
	COURSE TITLE		
GEN-US	Understanding the Self	3	
PED318	The Teacher and the Community, School Culture and Organizational Leadership	3	
PED319	The Teacher and the School Curriculum	3	
SCI319	CHEM3: Organic Chemistry	5	SCI111
SCI3110	PHYS3: Electricity & Magnetism	4	SCI122
SCI3111	BIO3: Microbiology and Parasitology	4	SCI215, SCI228
THEO3-FAM	Marriage and Family Life	3	THEO2-CSM

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COURSE CODE	SECOND SEMESTER	UNITS	PRE-REQ
	COURSE TITLE		
GEN-JR	The Life and Works of Rizal	3	
PED3210	Building and Enhancing New Literacies Across the Curriculum	3	
SCI3212	CHEM4: Biochemistry	3	SCI319
SCI3213	PHYS4:Waves and Optics	4	SCI3110
SCI3214	BIO: Anatomy & Physiology	4	SCI3111
SCI3215	Research in Teaching 1	3	
REL321	Field Study 1	3	

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FOURTH YEAR

COURSE CODE	FIRST SEMESTER	UNITS	PRE-REQ
	COURSE TITLE		
GEN-AA	Art Appreciation	3	
GEN-CW	The Contemporary World	3	
SCI4116	Research in Teaching 2	3	SCI3215
SCI4117	Astronomy	3	
SCI4118	Modern Physics	3	SCI3110
SCI4119	Technology for Teaching and Learning 2	3	PED215
REL412	Field Study 2	3	REL321
THEO4-CSM	Social Teachings of the Church and Benedictine Apostolate	3	THEO3-FAM

24

COURSE CODE	SECOND SEMESTER	UNITS	PRE-REQ
	COURSE TITLE		
SCI4220	The Teaching of Science/Teaching Specialized Field	3	
SCI4221	Meteorology	3	SCI111
REL423	Teaching Internship	6	REL412
SEDME421	Multicultural Education	3	
SYN	Synthesis	1	

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TOTAL NO. OF UNITS: 186

San Beda College Alabang

College of Arts and Sciences

Bachelor of Secondary Education Major in General Science

2021 Curriculum

SUMMARY OF UNITS

CORE PROFESSIONAL EDUCATION

A. Foundation Courses/Theories and Concepts

CODE	TITLE	UNITS
PED111	The Child and Adolescent Learner and Learning Principles	3
PED112	Foundations of Special and Inclusive Education	3
PED123	The Teaching Profession	3
PED318	The Teacher and the Community, School Culture and Organizational Leadership	3
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B. Pedagogical Content Knowledge

CODE	TITLE	UNITS
PED124	Facilitating Learner Centered Teaching	3
PED215	Assessment of Learning 1	3
PED216	Technology for Teaching and Learning 1	3
PED227	Assessment of Learning 2	3
PED319	The Teacher and the School Curriculum	3
PED3210	Building and Enhancing New Literacies Across the Curriculum	3
		18

SPECIALIZATION COURSES

CODE	TITLE	UNITS
SCI111	CHEM1:Inorganic Chemistry	5
SCI122	PHYS1: Fluid Mechanics	3
SCI213	CHEM2:Analytical Chemistry	5
SCI214	Earth Science	3
SCI215	BIO2: Cell and Molecular Biology	4
SCI226	Environmental Science	3
SCI227	PHYS2: Thermodynamics	4
SCI228	BIO1: Genetics	4
SCI319	CHEM3: Organic Chemistry	5
SCI3110	PHYS3: Electricity & Magnetism	4
SCI3111	BIO3: Microbiology and Parasitology	4
SCI3212	CHEM4: Biochemistry	3
SCI3213	PHYS4:Waves and Optics	4
SCI3214	BIO: Anatomy & Physiology	4
SCI3215	Research in Teaching 1	3
SCI4116	Research in Teaching 2	3
SCI4117	Astronomy	3
SCI4118	Modern Physics	3
SCI4119	Technology for Teaching and Learning 2	3
SCI4220	The Teaching of Science/Teaching Specialized Field	3
SCI4221	Meteorology	3
		76

RELATED EXPERIENTIAL LEARNING

CODE	TITLE	UNITS
REL321	Field Study 1	3
REL412	Field Study 2	3
REL423	Teaching Internship	6
		12

SUPPLEMENTAL

CODE	TITLE	UNITS
SYN	Synthesis	1
SEDME421	Multicultural Education	3
		4

GENERAL EDUCATION

CODE	TITLE	UNITS
GEN-US	Understanding the Self	3
GEN-MM	Mathematics in the Modern World	3
GEN-SS	Science, Technology and Society	3
GEN-PC	Purposive Communication	3
GEN-RP	Readings in Philippine History	3
GEN-AA	Art Appreciation	3
GEN-CW	The Contemporary World	3
GEN-JR	The Life and Works of Rizal	3
GEN-ET	Ethics (Being and Society)	3
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GENERAL EDUCATION ELECTIVES

CODE	TITLE	UNITS
GENE-ICC	Indigenous Creative Crafts	3
GENE-RES	Religious Experiences and Spirituality (Benedictine Spirituality)	3
GENE-LIE	Living in the IT Era	3
		9

PHYSICAL EDUCATION

CODE	TITLE	UNITS
PE1	Physical Activities towards Health and Fitness 1	2
PE2	Physical Activities towards Health and Fitness 2	2
PE3	Physical Activities towards Health and Fitness 3	2
PE4	Physical Activities towards Health and Fitness 4	2
		8

NATIONAL SERVICE TRAINING PROGRAM

CODE	TITLE	UNITS
NSTP1	National Service Training Program 1	3
NSTP2	National Service Training Program 2	3
		6

INSTITUTIONAL SUBJECTS:

Theology

CODE	TITLE	UNITS
THEO1-NTC	Jesus in the New Testament and Contemporary Times	3
THEO2-CSM	The Church, Sacraments and its Mission	3
THEO3-FAM	Marriage and Family Life	3
THEO4-CST	Social Teachings of the Church and Benedictine Lay Apostolate	3
		12

Personality Enrichment Program

CODE	TITLE	UNITS
PEP1	Personality Development	1
PEP2	Human Relations Development	1
		2

Core Professional Education	30
Specialization Courses	76
Experiential Learning	12
Supplemental	4
General Education	27
General Education Electives	9
Physical Education	8
National Service Training Program	6
Institutional Subjects	14
186	