



Republic of the Philippines
BATANGAS STATE UNIVERSITY

The National Engineering University

ARASOF-Nasugbu Campus

R. Martinez St., Brgy. Bucana, Nasugbu, Batangas, Philippines 4231

Tel Nos.: +63 917 107 2200

E-mail Address: cte.nasugbu@g.batstate-u.edu.ph | Website Address: <http://www.batstate-u.edu.ph>

College of Teacher Education

CURRICULUM

Bachelor of Secondary Education (BSEd)

Major in Sciences

Academic Year 2023- 2024

Reference CMOS: CMO No. 20 s. 2013, CMO No. 75, s. 2017, CMO No. 4 s.2018, CMO No. 39, s. 2021 and CMO No. 40, s. 2021

Curriculum Description

The BSEd is an undergraduate teacher education program designed to equip learners with adequate and relevant competencies to teach in their chosen area of specialization/major at the secondary level. It aims to develop highly motivated and competent teachers specializing in the content and pedagogy for secondary education. After successful completion of all academic requirements of the degree/program, graduates of BSEd should be able to practice the teaching profession at the Secondary Level.

Program Objectives

The BSED program aims to produce secondary teachers who have the ability to:

1. demonstrate comprehensive and up-to-date knowledge in a specific field of specialization in the secondary education curriculum by engaging in scholarly and research activities and maximizing opportunities for lifelong learning;
2. provide meaningful learning experiences to secondary students by using emerging educational technologies for quality and effective teaching and by creating an environment that encourages positive social interaction, active engagement and self-motivation;
3. demonstrate competence in teaching and testing through the design, adoption, and utilization of teaching methods, instructional materials, and assessment tools that are appropriate to the cognitive, affective and psychomotor development of secondary learners;
4. observe the code of ethics for professional teachers and internalize the importance of continuous professional development, as well as the need to work cooperatively and harmoniously with all members of the academic community; and
5. establish sustainable partnerships and linkages with the professional community and provide assistance to the undeserved, oppressed, illiterate and less skilled members of society through extension activities and community service.

Institutional Graduate Attributes (IGA)

IGA1: Knowledge Competence

Demonstrate a mastery of the fundamental knowledge and skills required for functioning effectively as a professional in the discipline, and an ability to integrate and apply them effectively to practice in the workplace.



Republic of the Philippines
BATANGAS STATE UNIVERSITY

The National Engineering University

ARASOF-Nasugbu Campus

R. Martinez St., Brgy. Bucana, Nasugbu, Batangas, Philippines 4231

Tel Nos.: +63 917 107 2200

E-mail Address: cte.nasugbu@g.batstate-u.edu.ph | Website Address: <http://www.batstate-u.edu.ph>

College of Teacher Education

IGA2: Creativity and Innovation

Experiment with new approaches, challenge existing knowledge boundaries and design novel solutions to solve problems.

IGA3: Critical and Systems Thinking

Identify, define, and deal with complex problems pertinent to the future professional practice or daily life through logical, analytical and critical thinking.

IGA4: Communication

Communicate effectively (both orally and in writing) with a wide range of audiences, across a range of professional and personal contexts, in English and Filipino.

IGA5: Lifelong Learning

Identify own learning needs for professional or personal development; demonstrate an eagerness to take up opportunities for learning new things as well as the ability to learn effectively on their own.

IGA6: Leadership, Teamwork, and Interpersonal Skills

Function effectively both as a leader and as a member of a team; motivate and lead a team to work towards goal; work collaboratively with other team members; as well as connect and interact socially and effectively with diverse cultures.

IGA7: Global Outlook

Demonstrate an awareness and understanding of global issues and willingness to work, interact effectively and show sensitivity to cultural diversity.

IGA8: Social and National Responsibility

Demonstrate an awareness of their social and national responsibility; engage in activities that contribute to the betterment of society; and behave ethically and responsibly in social, professional, and work environments.

Program Outcomes

The graduates of the program have the ability to:

- a. demonstrate deep understanding of scientific concepts and principles;
- b. apply scientific inquiry in teaching and learning and;
- c. utilize effective science teaching and assessment methods.



Republic of the Philippines
BATANGAS STATE UNIVERSITY

The National Engineering University

ARASOF-Nasugbu Campus

R. Martinez St., Brgy. Bucana, Nasugbu, Batangas, Philippines 4231

Tel Nos.: +63 917 107 2200

E-mail Address: cte.nasugbu@g.batstate-u.edu.ph | Website Address: http://www.batstate-u.edu.ph

College of Teacher Education
Curriculum Components

	Courses	Units	Total
	A. General Education Courses (CMO No. 20 s. 2013 and CMO No. 4 s. 2018)		42 units
Fili 101	Kontekstwalisadong Komunikasyon sa Filipino	3	
Fili 102	Filipino sa Iba't Ibang Disiplina	3	
Fili 103	Retorika – Masining na Pagpapahayag	3	
GEd 101	Understanding the Self	3	
GEd 102	Mathematics in the Modern World	3	
GEd 103	Life and Works of Rizal	3	
GEd 104	The Contemporary World	3	
GEd 105	Readings in Philippine History	3	
GEd 106	Purposive Communication	3	
GEd 107	Ethics	3	
GEd 108	Art Appreciation	3	
GEd 109	Science, Technology and the Society	3	
Litr 101	Sosyedad at Literatura/Panitikang Panlipunan	3	
Litr 102	ASEAN Literature	3	
	B. Professional Education Courses		42 units
	<i>Foundation/Theories and Concepts</i>		
Ed 101	The Child and Adolescent Learners and Learning Principles	3	
Ed 102	The Teaching Profession	3	
Ed 103	The Teacher and the Community, School Culture and Organizational Leadership	3	
Ed 106	Foundation of Special and Inclusive Education	3	
	<i>Pedagogical Content Knowledge</i>		
Ed 104	Assessment in Learning 1	3	
Ed 105	Facilitating Learner-Centered Teaching	3	
Ed 107	Technology for Teaching and Learning 1	3	
Ed 108	The Teacher and the School Curriculum	3	
Ed 109	Assessment in Learning 2	3	
Ed 110	Building and Enhancing New Literacies Across the Curriculum	3	
	<i>Experiential Learning</i>		
Ed 111	Field Study 1	3	
Ed 112	Field Study 2	3	
Ed 115	Teaching Internship	6	
	C. Major/Specialization Courses		73 units
SEd 111	Inorganic Chemistry	5	
SEd 121	Analytical Chemistry	5	
SEd 131	Earth Science	3	
SEd 132	Fluid Mechanics	3	
SEd 211	Thermodynamics	4	
SEd 212	Organic Chemistry	5	
SEd 221	Biochemistry	3	
SEd 222	Electricity and Magnetism	4	
SEd 223	Genetics	4	
SEd 311	Cell and Molecular Biology	4	
SEd 312	Waves and Optics	4	
SEd 313	Astronomy	3	
SEd 314	Meteorology	3	
SEd 315	Research in Sciences 1	3	
SEd 321	Technology Application in Science Teaching	3	
SEd 322	Modern Physics	3	



Republic of the Philippines
BATANGAS STATE UNIVERSITY

The National Engineering University

ARASOF-Nasugbu Campus

R. Martinez St., Brgy. Bucana, Nasugbu, Batangas, Philippines 4231

Tel Nos.: +63 917 107 2200

E-mail Address: cte.nasugbu@g.batstate-u.edu.ph | Website Address: http://www.batstate-u.edu.ph

College of Teacher Education

SEd 323	Microbiology and Parasitology	4	
SEd 324	Anatomy and Physiology	4	
SEd 325	The Teaching of Science (Teaching the Specialized Field)	3	
SEd 326	Environmental Science	3	
	D. Mandated Courses		14 units
NSTP 111	National Service Training Program 1	3	
NSTP 121	National Service Training Program 2	3	
PATHFit 1	Movement Competency Training	2	
PATHFit 2	Exercise-Based Fitness Activity	2	
PATHFit 3	Menu of Courses in Sports, Dance, Martial Arts, Group Exercise, Outdoor and Adventure Activities Menu Offering Traditional and Recreational Games	2	
PATHFit 4	Menu of Courses in Sports, Dance, Martial Arts, Group Exercise, Outdoor and Adventure Activities Menu Offering Team Sports (Basketball and Volleyball)	2	
	E. Institutional Prerogative Courses		13 units
Ed 113	Management of Students' Behavior and Wellness	3	
Ed 114	Special Topics in Education	3	
Ed 116	Comprehensive Examination	3	
MATH 121	Precalculus	3	
SEd 327	Research in Sciences 2	1	

SUMMARY	
Courses	Number of Units
General Education	42
Professional Education	42
Specialization	73
Elective/Cognates	-
Mandated	14
Institutional Prerogative Courses	13
TOTAL	184

FIRST YEAR					
FIRST SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
NSTP 111	National Service Training Program 1	3	3	-	-
PATHFit 1	Movement Competency Training	2	2	-	-
GEd 101	Understanding the Self	3	3	-	-
GEd 102	Mathematics in the Modern World	3	3	-	-
GEd 103	Life and Works of Rizal	3	3	-	-
Fili 101	Kontekstwalisadong Komunikasyon sa Filipino	3	3	-	-
Ed 101	The Child and Adolescent Learners and Learning Principles	3	3	-	-
SEd 111	Inorganic Chemistry	5	3	6	-
TOTAL		25	23	6	



Republic of the Philippines
BATANGAS STATE UNIVERSITY

The National Engineering University

ARASOF-Nasugbu Campus

R. Martinez St., Brgy. Bucana, Nasugbu, Batangas, Philippines 4231

Tel Nos.: +63 917 107 2200

E-mail Address: cte.nasugbu@g.batstate-u.edu.ph | Website Address: http://www.batstate-u.edu.ph

College of Teacher Education

FIRST YEAR					
SECOND SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
NSTP 121	National Service Training Program 2	3	3	-	NSTP 111
PATHFit 2	Exercise-Based Fitness Activity	2	2	-	PATHFit 1
GEEd 104	The Contemporary World	3	3	-	-
GEEd 105	Readings in Philippine History	3	3	-	-
GEEd 106	Purposive Communication	3	3	-	-
Litr 101	Sosyedad at Literatura/Panitikang Panlipunan	3	3	-	-
Ed 102	The Teaching Profession	3	3	-	-
MATH 121	Precalculus	3	3	-	-
SEd 121	Analytical Chemistry	5	3	6	SEd 111
TOTAL		28	26	6	

FIRST YEAR					
MIDYEAR TERM					
Code	Course Title	Units	Lec	Lab	Prerequisite
SEd 131	Earth Science	3	3	-	-
SEd 132	Fluid Mechanics	3	3	-	MATH 121
TOTAL		6	6	-	

SECOND YEAR					
FIRST SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
PATHFit 3	Menu of Courses in Sports, Dance, Martial Arts, Group Exercise, Outdoor and Adventure Activities Menu Offering Traditional and Recreational Games	2	2	-	PATHFit 1 and 2
GEEd 107	Ethics	3	3	-	-
GEEd 108	Art Appreciation	3	3	-	-
Ed 103	The Teacher and the Community, School Culture and Organizational Leadership	3	3	-	Ed 102
Ed 104	Assessment in Learning 1	3	3	-	-
Ed 105	Facilitating Learner-Centered Teaching	3	3	-	Ed 101
SEd 211	Thermodynamics	4	3	3	MATH 121
SEd 212	Organic Chemistry	5	3	6	SEd 111
TOTAL		26	23	9	

SECOND YEAR					
SECOND SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
PATHFit 4	Menu of Courses in Sports, Dance, Martial Arts, Group Exercise, Outdoor and Adventure Activities Menu Offering Team Sports (Basketball and Volleyball)	2	2	-	PATHFit 1 and 2
GEEd 109	Science, Technology and the Society	3	3	-	-
Fili 102	Filipino sa Iba't Ibang Disiplina	3	3	-	-
Ed 106	Foundation on Special and Inclusive Education	3	3	-	-



Republic of the Philippines
BATANGAS STATE UNIVERSITY

The National Engineering University

ARASOF-Nasugbu Campus

R. Martinez St., Brgy. Bucana, Nasugbu, Batangas, Philippines 4231

Tel Nos.: +63 917 107 2200

E-mail Address: cte.nasugbu@g.batstate-u.edu.ph | Website Address: http://www.batstate-u.edu.ph

College of Teacher Education

Ed 107	Technology for Teaching and Learning 1	3	3	-	-
Ed 108	The Teacher and the School Curriculum	3	3	-	-
SEd 221	Biochemistry	3	3	-	SEd 212
SEd 222	Electricity and Magnetism	4	3	3	MATH 121
SEd 223	Genetics	4	3	3	-
TOTAL		28	26	6	

THIRD YEAR					
FIRST SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
Fili 103	Retorika – Masining na Pagpapahayag	3	3	-	Fili 101,102
Ed 109	Assessment in Learning 2	3	3	-	Ed 104
Ed 110	Building and Enhancing New Literacies Across the Curriculum	3	3	-	-
SEd 311	Cell and Molecular Biology	4	3	3	SEd 221,223
SEd 312	Waves and Optics	4	3	3	SEd 222
SEd 313	Astronomy	3	3	-	- -
SEd 314	Meteorology	3	3	-	SEd 131
SEd 315	Research in Sciences 1	3	3	-	-
TOTAL		26	24	6	

THIRD YEAR					
SECOND SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
Litr 102	ASEAN Literature	3	3	-	-
SEd 321	Technology Application in Science Teaching	3	3	-	Ed 107
SEd 322	Modern Physics	3	3	-	SEd 222
SEd 323	Microbiology and Parasitology	4	3	3	-
SEd 324	Anatomy and Physiology	4	3	3	-
SEd 325	The Teaching of Science (Teaching the Specialized Field)	3	3	-	Ed 105
SEd 326	Environmental Science	3	3	-	-
SEd 327	Research in Sciences 2	1	1	-	SEd 315
TOTAL		24	22	6	

FOURTH YEAR					
FIRST SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
Ed 111	Field Study 1	3	3	-	Ed 101 to 110 All SEd Courses
Ed 112	Field Study 2	3	3	-	Ed 101 to 110 All SEd Courses
Ed 113	Management of Students' Behavior and Wellness	3	3	-	-
Ed 114	Special Topics in Education	3	3	-	-
TOTAL		12	12	-	



Republic of the Philippines
BATANGAS STATE UNIVERSITY

The National Engineering University

ARASOF-Nasugbu Campus

R. Martinez St., Brgy. Bucana, Nasugbu, Batangas, Philippines 4231

Tel Nos.: +63 917 107 2200

E-mail Address: cte.nasugbu@g.batstate-u.edu.ph | Website Address: <http://www.batstate-u.edu.ph>

College of Teacher Education

FOURTH YEAR					
SECOND SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
Ed 115	Teaching Internship	6	6	-	Ed 111, 112
Ed 116	Comprehensive Examination	3	3	-	All Academic Courses
TOTAL		9	9	-	

**Corequisite course*