

A. Educ 1 - The Child and Adolescent Learners and Learning Principles

- This course focuses on child and adolescent development with emphasis on current research and theory on biological, linguistic, cognitive, social and emotional dimensions of development. Further, this includes factors that affect the progress of development of the learners and shall include appropriate pedagogical principles applicable for each developmental level.

B. Educ 3 - Facilitating Learner Centered Teaching

- This course explores the fundamental principles, processes and practices anchored on learner- centeredness and other educational psychologies as these apply to facilitate various teaching-learning delivery modes to enhance learning.

C. Educ 2 - The Teaching Profession

- This course deals with the teacher as a person and as a professional within the context of national and global teachers' standards and educational philosophies. It will include professional ethics, core values, awareness of professional rights, privileges and responsibilities as well as the teachers' roles in the society as a transformative agent of change.

D. TTL 1 - Technology for Teaching and Learning 1

- This is an introductory course that explores basic knowledge, skills and values in the use of technology for teaching and learning. It includes ICT policies and safety issues, media and technology in various content areas, learning theories and principles in the use and design of learning lessons, teaching-learning experiences and assessment tasks that utilize appropriate traditional and innovative technologies with social, ethical and legal responsibility in the use of technology tools and resources.

E. Educ 4 - Assessment in Learning 1

- This is a course that focuses on the principles, development and utilization of conventional assessment tools to improve the teaching-learning process. It emphasizes on the use of assessment of, as, and for, in measuring knowledge, comprehension and other thinking skills in the cognitive, psychomotor or

affective domains. It allows students to go through the standard steps in test construction and development and the application in grading systems.

F. Educ 5 - Assessment in Learning 2

- This is a course that focuses on the principles, development and utilization of alternative forms of assessment in measuring authentic learning. It emphasizes on how to assess process- and product- oriented learning outcomes as well as affective learning. Students will experience how to develop rubrics and other assessment tools for performance-based and product-based assessment.

G. Educ 6 - The Teacher and the Community, School, Culture and Organizational Leadership

- This course focuses on society as a context upon which the schools have been established. Educational philosophies that are related to the society as a foundation of schools and schooling shall be emphasized. Further, principles and theories on school culture, and organizational leadership shall be included to prepare prospective teachers to become school leaders and managers.

H. Educ 7 - Foundation of Special and Inclusive Education

- This course shall deal with philosophies, theories and legal bases of special needs and inclusive education, typical and atypical development of children, learning characteristics of students with special educational needs (gifted and talented, learners with difficulty seeing, learners with difficulty hearing, learners with difficulty communicating, learners with difficulty walking/moving, learners with difficulty remembering and focusing, learners with difficulty with self-care) and strategies in teaching and managing these learners in the regular class.

I. Educ 9 - Building and Enhancing New Literacies Across the Curriculum

- This course introduces the concepts of new literacies in the 21st century as an evolving social phenomena and shared cultural practices across learning areas. The 21st century literacies shall include (a) globalization and multi-cultural literacy, (b) social literacy, (c) media literacy, (d) financial literacy, (e) cyber literacy/digital literacy, (f) eco- literacy and (g) arts and creativity literacy. Field based- interdisciplinary explorations and other teaching strategies shall be used in this course.

J. Experiential Learning (Field Studies and Teaching Internship)

- This course is a year-long engagement that supports authentic experiential learning from field study and actual classroom immersion of the prospective teachers. It begins with field study experiences through (a) observation and (b) participation and will progress to (c) teaching assistantship and (d) guided/mentored classroom teaching.

K. Field Study 1 – Observations of Teaching-Learning in Actual School Environment

- This is the first experiential course, which will immerse a future teacher to actual classroom situation and learning environment where direct observation of teaching learning episodes that focuses on the application of educational theories learned in content and pedagogy courses will be made. Observations on learners' behavior, motivation, teacher's strategies of teaching, classroom management, assessment in learning among others shall be given emphasis. A portfolio shall be required in the course

L. Field Study 2 – Participation and Teaching Assistantship

- This course is a continuation of Field Study 1. It is school based and allows a pre-service student to participate and assist in a limited actual teaching-learning activities that relate to assessment of learning, preparation of instructional materials, preparation of the bulletin boards, and other routines in the classroom. A portfolio which will contain sample lesson plan or learning plans and demonstration teaching of at least one subject content area will be required. An action research shall be encouraged to start in this course and conclude during the internship.

M. Educ 10 - Teaching internship

- This course is a one semester full time teaching internship in basic education schools using a clinical approach under the mentorship of a cooperating teacher. Teaching internship shall be done both in the in-campus or off campus if possible. No academic courses shall be taken together with Teaching Internship. A teaching portfolio shall be required and the completion of the Action Research.

SPECIALIZATION / MAJOR COURSES

A. MTB 1 - Content and Pedagogy in the Mother-tongue

This course includes both the content and the pedagogy of the mother tongue. The subject matter content includes the structure of the mother tongue as a language, literature in the mother tongue, methods and techniques of teaching the language, development of instructional materials and assessment.

B. Fil 1 – Pagtuturo ng Filipino sa Elementarya 1 – Estructura at Gamit ng Wikang Filipino

Pagsanay ng paggamit ng estructura at gamit ng Wikang Filipino sa pagtuturo sa elementarya. Sumasaklaw sa dekritibong pag-aaral ng wikang Filipino sa lebel ng polohiya, morpolohiya, semantikas at sintaks.

C. Fil 2 – Pagtuturo ng Filipino sa Elementarya II – Panitikan ng Pilipinas

Paggamit ng mga iba't ibang anyo ng literature ng Pilipinas galling sa sarili at iba't ibang rehiyon sa pagtuturo, produksyon at (assessment) na angkop sa elementarya.

D. Sci 1 – Teaching Science in the Primary Grades (Biology and Chemistry)

The course includes understanding of spiraling basic science concepts and application of science inquiry in Chemistry and Biology and the use of teaching strategies in elementary science, development of instructional materials and assessment. Content topics in Chemistry include Properties and Structure of Matter and Changes that Matter Undergo. In Biology content topics includes Parts and Functions of Animals and Plants, Heredity: Inheritance and Variation, Biodiversity and Evolution and Ecosystems.

E. Sci 2 – Teaching Science in the Intermediate Grades (Physics, Earth and Space Science)

This course includes understanding of spiraling basic science concepts and application of science inquiry in Physics and Earth and space, strategies in teaching elementary science, development of instructional materials and assessment. Content topics in Physics include Force and Motion, and Energy while Earth and Space Science include Geology, Meteorology, and Astronomy.

F. SSC 1 – Teaching Social Studies in Primary Grades (Philippine History and Government)

This course emphasizes the contents of Philippine History and Government that are necessary in teaching at the elementary level. Further, appropriate teaching strategies and assessment methods shall be included to prepare students to become elementary grade teachers.

G. SSC 2 – Teaching Social Studies in Intermediate Grades (Culture and Basic Geography)

The course aims to equip the students in the BEd program a strong background in local history and culture. This background serves as an avenue for further inquiry of the available resources in the community for the localization and contextualization of teaching of elementary subjects. Areas to be studied include natural heritage of the locality, tangible and intangible culture that are of great significance to the socio-economic and political activities of the people in the place. In the end they are expected to come up with the profiling of available cultural resources in the community.

H. Math 1 – Teaching Math in the Primary Grades

This course equips prospective teachers with pedagogical content knowledge for the teaching of basic contents in mathematics in the primary level. Understanding of key concepts and skills of whole numbers up to 10 000, fractions, measurement, simple geometric figures, pre-algebra concepts and data representation and analysis are applied using appropriate technology. Teaching strategies include problem solving, critical thinking, differentiated instruction, inquiry-based learning with the use of manipulatives based on cultural context will be emphasized.

I. Math 2 – Teaching Math in the Intermediate Grades

As preparation for teaching in the intermediate grades, this course emphasizes the integration of technological pedagogical content knowledge that includes topics on rational numbers, measurement, geometric figures, pre- algebra concepts, application of simple probability and data analysis. This course is capped with microteaching that utilizes appropriate teaching strategies for the development of critical and problem solving, reasoning, communicating, making corrections, representations and decisions in real life situations.

J. TLE 1 - Edukasyong Pantahanan at Pangkabuhayan (1)

This course shall include pedagogical content, knowledge and skills in technology and livelihood education necessary in teaching and learning in the elementary level. Selected topics in home economics, industrial arts, technology and livelihood education shall form a major part of the course. Experiential learning approach shall be the focus of this course.

K. TLE 2 - Edukasyong Pantahanan at Pangkabuhayan with Entrepreneurship

This course shall include pedagogical content, knowledge and skills in technology and livelihood education necessary in teaching and learning in the elementary level. Selected topics in agriculture arts, fisheries arts and livelihood education and entrepreneurship shall form a major part of the course. Experiential learning approach shall be the focus of the course.

L. Music - Teaching Music in the Elementary Grades

This course deals with the educational foundations of Music as it applies to teaching and learning in the elementary grades. Various teaching strategies and assessment appropriate for each area shall be given emphasis in the course.

M. Arts - Teaching Arts in the Elementary Grades

This course deals with the educational foundations of Arts as these apply to teaching and learning in the elementary grades. Various teaching strategies and assessment appropriate for each area shall be given emphases in the course.

N. PEH - Teaching PE and Health in the Elementary Grades

This course deals with the educational foundations of Physical Education as these apply to teaching and learning in the elementary grades. Various teaching strategies and assessment appropriate for each area shall be given emphases in the course.

O. Engl 1 - Teaching English in the Elementary Grades (Language Arts)

This course will emphasize English as a second language with main focus on

language teaching methodologies to improve knowledge on the structure and fluency in the English language through listening, reading, writing, speaking and viewing.

P. Engl 2 - Teaching Literacy in the Elementary Grades Through Literature

This course will focus on Children's Literature in English to include riddles, poetry, stories, drama, and other written works as an avenue to teach English language. Teaching methodologies in the use of literature shall be emphasized.

Q. ED 1 - Good Manners and Right Conduct (Edukasyon sa Pagpapakatao)

Anchored on the essential component of personhood that deals with intra/interpersonal relationships which allow harmony with oneself, with others and the environment, this course will highlight the fundamental rules of good manners and appropriate conduct of behavior of each learner which are necessary of the formation of character that embraces the core values of Maka-Dios, Maka-Tao, Maka-Bansa and Maka-Kalikasan.

R. TTL 2 - Technology for Teaching and Learning in the Elementary Grades

This course is designed for prospective teachers to develop and use digital and non-digital teaching-learning resources using technology tools appropriate in various subject areas in the elementary level. Further, the course will provide opportunities for students to use technology tools to develop project-based collaborative activities and share resources among communities of practice.

S. RES 1 - Research in Teaching

This is a practicum research course that will provide prospective elementary teachers an avenue to conduct applied or action research that will provide empirical bases to improve teaching and learning. This course maybe taken together simultaneously with Field Study 1 and Field Study 2.

ELECTIVE COURSE/S IN BEEd

A. Elec 1 – Teaching Multi-Grade Classes

This is a course in implementation of multi-grade course that deals with the theories, principles and concepts of multi-grade learners and classes. It includes pedagogical approaches and contextualized learning environments for the different grade and age levels are grouped for instructions in different school situations.

Bachelor of Secondary Education Major in English

SPECIALIZATION/MAJOR COURSES

1. EL 100 - Introduction to Linguistics

Provides an overview of linguistics as a discipline, its development, levels of structure, and its significance to English language teaching.

2. EL 101 - Language, Culture and Society

Explores the inextricable link between and among language, culture, and society and its implications to the development of English as a global language and the ways by which it is learned and taught.

3. EL 102 - Structures of English

Develops the ability to use the phonological, lexical, syntactic, and semantic structures of English with ease and explain the form, meaning, and use of their elements

4. EL 103 - Principles and Theories of Language Acquisition and Learning

Examines principles, factors, and contexts of language acquisition and learning based on theories and research findings

5. EL 104 - Language Programs and Policies in Multilingual Societies

Provides a survey of local and international basic education language programs and policies that account for issues and considerations relevant to the engagement of teachers in school settings

6. EL 105 - Language Learning Materials Development

Develops the application of the principles, methods, and approaches of translation and adaptation of various texts

7. EL 107 - Teaching and Assessment of the Macro Skills

Explores the nature of reading and the theoretical bases, principles, and methods and strategies in teaching and assessing reading. It aims to familiarize students with various strategies for pre-reading, during reading, and post reading.

8. EL 108 - Teaching and Assessment of the Grammar

The course engages learners in understanding the distinctions between and among four types of grammar: functional, descriptive, prescriptive, and pedagogic. Aside from the emphasis on how teaching and assessment vary considering the four types, the course also provides opportunities to discover the role of grammar in achieving communicative competence

9. EL 109 - Speech and Theater Arts

Examines the process of oral communications and the various forms of speech arts from public speaking and group discussions to debate, oral interpretation and dramatics

10. EL 110 - Language Research

Develops skills in applying principles and approaches in research to find answers to questions in language learning and teaching

11. EL 111 - Children and Adolescent literature

Provides a survey of the categories and types of the world's literature for children and adolescents

12. EL 112 - Mythology and Folklore

Explores mythology and folklore from different countries to gain insights into people's origin, desires, fears, instincts, and needs

13. EL 113 - Survey of Philippine Literature in English

Enables students to analyze the growth and development of Philippine Literature in English from 1900 to the present along socio-historical events as shown in representative works

14.EL 114 - Survey of Afro-Asian Literature

Surveys selected literary texts from Asia and Africa, particularly India, China, Japan, the countries in the southeast region in Asia, and the African nations south of the Sahara along socio-historical, philosophical, and literary underpinnings

15.EL 115 - Survey of English and American literature

Engages students in a historical survey of selected literary works produced by understanding English and American literatures from its beginnings to the 21st Century

16.EL 116 - Contemporary, Popular, and Emergent Literature

Focuses on critical issues in contemporary and popular literature and genres

17.EL 117 - Literary Criticism

Provides students with opportunities to study the basic approaches to literary theory and criticism and their application to selected literary works

18.EL 118 - Technical Writing

Develops technical and scientific writing skills across disciplines

19. EL 119 - Campus Journalism

Develops skills and applies principles and strategies in writing for traditional and new media

20. TTL 2/EL 120 - Technology for Teaching and Learning 2 (Technology in Secondary Language Education)

TTL 2 is a 3-unit course which will focus on the application, design, production, utilization, and evaluation of information and Communications Technology (ICT) materials for teaching and learning in Secondary Language (English and Filipino) Education programs. The major requirement for this course is an ICT-integrated and Project-based Learning Plan aligned to the K to 12 curriculum. All the learning activities and course requirements will revolve around the student-teacher developed Learning Plan

Bachelor of Secondary Education Major in Filipino

1. FIL 101 - Introduksyon sa Pag-aaral ng Wika

Tumatalakay sa mga teoryang (sikolohikal, sosyolohikal, antropolohikal, linggwistika, atbp.) na nakaiimpluwensya sa pagkatuto at pagtuturo ng wika

2. Fil 102 - Panimulang Linggwistika

Nagbibigay-diin sa mga batayang kaalaman at makaagham na pag-aaral ng wika

3. Fil 103 - Ang Filipino sa Kurikulum ng Batayang Edukasyon

Tumatalakay sa mga batayang teoretikal, nilalaman, katangian at panuntunan sa pagpapatupad ng nireestrakturang kurikulum sa Filipino. Iniaangkop ang kurikulum sa mga kondisyon at sitwasyong local.

4. Fil 104 - Estructura ng Wikang Filipino

Sumasaklaw sa deskriptibong pag-aaral ng wikang Filipino sa lebel ng ponolohiya, morpolohiya, semantics at sintaks

5. Fil 105 - Pagtuturo at Pagtataya ng Makrong Kasanayang Pangwika

Tumatalakay sa mga teorya, simulain, mga metodo ng pagtuturo at mga uri/pamamaraan sa pagtataya ng mga kasanayan sa pakikinig, pagsasalita, pagbasa, pagsulat at panood na gunagamit ng iba't ibang uri ng diskors at Gawain

6. Fil 106 - Ugnayan ng Wika, Kultura, at Lipunan

Sumasaklaw sa malalim na kabatiran sa kahalagahan ng ugnayan ng wika, kultura, at lipunan na nagpapalakas at nagpapatibay ng pagka-Pilipino na makakatulong sa makabuluhang pagtuturo at pagkatuto

7. Fil 107 - Paghahanda at Ebalwasyon ng Kagamitang Panturo

Sumasaklaw sa pag-aaral ng mga teorya, simulain, pamaraan, paggamit at ebalwasyon ng kagamitang panturo kasama ang mga kagamitan para sa alternatibong pagtuturo at pagkatuto gayundin ang paggamit ng teknolohiya

8. Fil 108 - Introduksyon sa Pagsasalin

Sumasaklaw sa pag-aaral ng mga teorya, simulain at teknik sa pagsasalin ng mga tekstong literari at di-literari

9. Fil 109 - Introduksyon sa Pananaliksik-Wika at Panitikan

Sumasaklaw sa mga batayang kaalaman, sa mga lawak, uri at metodo ng pananaliksik sa wika at panitikan, na maglulundo sa paghahanda at paghaharap ng isang sulating pananaliksik

10. Fil 110 - Introduksyon sa Pamamahayag

Sumasaklaw sa mga batayang kaalaman sa pamamahayag at paglilinang ng mga kasanayan sa pagsulat ng iba't ibang uri at anyo ng sulating journalistik, kasama na rito ang paghahanda at pamamahala ng pahayagang pampaaralan

11. Fil 111 - Barayti at Baryasyon ng Wika

Komparatibong sarbey ng iba't ibang relasyunal, sosyal, antropolohikal, akademik, okupasyunal na barayti at baryasyon ng Filipino

12. Fil 112 - Mga Natatanging Diskurso sa Wika at Panitikan

Pagsusuri sa mga piling diskursong pangwika at pampanitikan sa konteksto ng Lipunang Pilipino. Pagtukoy sa mga konsepto at isyung pangwika at pampanitikan at kahalagahan at kaugnayan ng mga ito sa akademiko at di akademikong Gawain at karanasan ng mga mag-aaral na Pilipino

13. LIT 101 - Panitikan ng Rehiyon

Sumasaklaw sa pag-aaral ng mga pangunahing akda sa mga rehiyonal na wika. Maaaring orihinal o salin sa Filipino ang mga tekstong susuriin at pagpapahalagang kultural. (Magbabago-bago ayon sa local ng TEI's at walang duplikasyon sa panitikang rehiyonal na bahagi ng GEC-Lit!)

14. Lit 102 - Kulturang Popular

Sumasaklaw sa pag-aaral at pagsusuri ng iba't ibang kulturang popular, e.g. pelikula, musika, komiks at pahayagan, mga programang panradyo, pantelebisyon na nakaiimpluwensya sa paghubog ng kamalayan at kaakuhan o identidad

15. Lit 103 - Sanaysay at Talumpati

Pag-aaral at pagpapahalaga ng pangkasaysayang pag-unlad ng sanaysay at talumpati na kaagapay ang pagsulat ng mga kontemporaryong anyo nito, pati na ang pagsasanay sa pagsulat at pagbigkas ng talumpati. Tumutukoy din sap ag-aaral ng kotemporaryong dulog at metodo sa pagtututro ng iba't ibang anyo ng panitikan upang makabuo ng angkop na pamamaraan sa pagtataya ng mga kaalaman at kasanayang natamo

16. Lit 104 - Panunuring Pampanitikan

Tumatalakay sa mga teorya, simulain at pamamaraan ng pagbasa, interpretasyon at pagsusuri ng panitikan mula sa bagong kritisismo hanggang sa post modernism

17. Lit 105 - Maikling Kuwento at Nobelang Filipino

Sumasaklaw sap ag-aaral at pagpapahalaga ng pangkasaysayang pag-unlad ng maikling kuwento at nobelang Filipino na may pagbibigay-diin sa mga sangkap at pagkabuo nito

18. Lit 106 - Panulaang Filipino

Nakatuon sap ag-aaral at pagpapahalaga ng pangkasaysayang pag-unlad ng panulaan na nagbibogay diin sa mag sangkap ng tula sa pamamagitan ng pagsusuri sa ilang piling tula at dula na kumakatawan sa bawat panahon sa pamamagitan ng pagsusuri sa ilang piling tula at dula na kumakatawan sa bawat panahon.

19. Lit 107 - Dulang Filipino

Sumasaklaw sa pag-aaral at pagtalakay ng pangkasaysayang pag-unlad ng dulang Filipino na nagbibigay tuon sa mga element at uri ng dula

ELECTIVE COURSES UNDER BSEd MAJOR IN FILIPINO

1. Elective 1 - Pagsasalin Sa Iba't-Ibang Disiplina

Sumasaklaw ng pagpili ng mga teknik na magagamit sa pagsasalin sa iba't ibang disiplina tungo sa patuloy na intelektwalisasyon ng wikang pambansa

2. Elective 2 - Malikhaing Pagsulat

Sumasaklaw ang kursong ito sap ag-aaral sa mga simulain, pamamaraan at proseso ng malikahaing pagsulat sa Filipino at ang aplikasyon ng mga ito sa pagbubuo ng masining at malikhaing anyo ng sulatin at akdang pampanitikan

Bachelor of Secondary Education Major in Mathematics

1. Math 100 - History of Mathematics

The course presents the humanistic aspects of mathematics which provides the historical context and timeline that led to the present understanding and applications of the different branches of mathematics

2. Math 101 - College and Advanced Algebra

The course builds upon the students' knowledge on properties of the real number system, operations on different types of algebraic expressions, and the solution of various types of equations and inequalities. The course also covers the prerequisites to trigonometry and calculus, specifically transcendental and non-transcendental functions, including the characteristics of their graphs and applications

3. Math 102 - Trigonometry

The course introduces students to circular and trigonometric functions, trigonometric identities, and to the polar coordinate system. The students then apply concepts in these topics to applications in problem solving

4. Math 103 - Plane and Solid Geometry

The course covers topics on Euclidean Geometry. The topics are discussed using both the deductive and inductive methods to conjecture definitions, corollaries, postulates and theorems on plane and solid geometry

5. Math 104 - Logic and Set Theory

The course is a study of mathematical logic which covers topics such as propositions, logical operators, rules of replacement, rules of inference, algebra of logic and quantifiers. It also includes a discussion of elementary theory of sets such as fundamental concepts of sets, set theorems and set operations

6. Math 105 - Elementary Statistics and Probability

The course equips the students with the basic statistical tools to understand various phenomena. The topics on mean, variance, sampling, and estimation eventually allow the students to be able to perform hypothesis testing on real-life problems from different fields. The course includes applications and data analysis with computations carried out using SPSS

7. Math 106 - Calculus 1 with Analytic Geometry

The course equips the students with knowledge and skills needed to be able to determine limits of functions, to differentiate, and to integrate algebraic, exponential, logarithmic, and trigonometric functions in one variable. It also includes exposure to more challenging problems covering continuity and areas of regions

8. Math 107 - Calculus II

The course aims to further develop the students' understanding of differential and integral calculus. It covers the methods and techniques of integration, indeterminate forms, and improper integrals of algebraic and transcendental functions.

9. Math 108 - Calculus III

The course aims to provide the students with an understanding of the applications of differentiation and integration in sequences, infinite series, power series, as well as of multiple integration for functions in several variables. Moreover, students will be able to apply these concepts to problem solving

10. Math 109 - Modern Geometry

The course is an enrichment of the course on Euclidean Geometry. It discusses the properties and applications of other types of geometries such as finite geometry, non-Euclidean geometry, and projective geometry

11. Math 110 - Mathematics of Investment

The course introduces students with a basic understanding of the applications of mathematical concepts and skills in economics, business and counting. It includes determining the time value of money using simple and compound interest and discounting, variation of annuities, amortization stocks and bonds, and sinking fund

12. Math 111 - Number Theory

The course is a study of the properties of numbers and their proofs. It presents the students with different methods of mathematical proving. It focuses on the discussion of the set of integers that including Unique Prime Factorization, Divisibility Rules, Euclidean Algorithm, Linear Congruences and Linear Diophantine Equations.

13. Math 112 - Linear Algebra

The course provides a basic understanding of vector spaces, including the study of matrices, their properties and matrix operations. It also covers the application of matrices in systems of linear equations and linear transformations.

14. Math 113 - Advanced Statistics

The course deals with non-parametric statistics. It covers the topics on test of association such as Spearman Rho, Phi coefficient, Contingency coefficient, biserial and test of differences such as Mann-Whitney U, Wicoxon. It includes applications and data analysis with computations carried out using SPSS

15. Math 115 - Problem Solving, Mathematical Investigation and Modelling

The course deepens and further enhances the students' understanding of real-life applications of mathematics through investigating, pattern finding, testing and justifying conjectures, and making generalizations

16. Math 116 - Principles and Strategies in Teaching Mathematics

The course deals with the applications of the principles, the strategies in teaching, and philosophical foundations of teaching mathematics. These are then applied in lesson planning and microteaching

17. Math 114 - Abstract Algebra

The course is a study of basic algebraic structures such as groups, rings, integral domains and fields. It provides a basic understanding of relations focusing on isomorphism. It aims to enhance the student's skills in constructing mathematical proofs, and develop their symbolic thinking and appreciation of mathematical structures

18. Math 118 - Research in Mathematics

The course aims to prepare prospective mathematics teachers to undertake an undergraduate research project. It gives teachers the opportunity to conduct research that addresses problems, issues, and concerns in mathematics teaching and learning. It also showcases their research skills through the application of the mathematical content and processes they have learned

19. TTL 2/Math 117 - Technology for Teaching and Learning 2 (Instrumentation & Technology in Mathematics)

TTL 2 is a 3-unit course which will focus on the application, design, production, utilization, and evaluation of Information and Communications Technology (ICT) materials for teaching and learning in Mathematics Education Programs. The major requirement for this course is an ICT-Integrated and Project-based Learning Plan aligned to the K to 12 curriculum. All the learning activities and course requirements will revolve around the student-teacher developed Learning Plan

20. Math 119 - Assessment and Evaluation in Mathematics

The course deals with traditional and authentic assessment methods for evaluating mathematics learning. It covers the purposes of instruction and assessment, the relationship of assessment to content and performance standards, and discussions on the issues and trends in assessment specifically in mathematics teaching.