



St. Paul University Manila

(St. Paul University System)

680 Pedro Gil St., Malate, 1004 Manila, Philippines



CMO 75, SERIES 2017

TEACHER EDUCATION PROGRAM COLLEGE OF EDUCATION

PROGRAM: BACHELOR OF SECONDARY EDUCATION MAJOR IN SCIENCE WITH MACDDS
LEVEL: 6
TRACK: Academic

Program 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 in the secondary level.

Program Goals

The BSEd degree program aims to develop highly motivated and competent teachers specializing in the content and pedagogy for secondary education.

Program Outcomes:

At the end of the program, the education student is able to:

1. establish excellence in the educational profession by effectively contributing to the professional work environment putting into practice approaches, theoretical frameworks, concepts and strategies learned in the classroom and applied to schools and in other educational and community settings and demonstrating a high level of content and pedagogical knowledge (CMO.76 s.2017) (*LPO 4. Reliable, Productive Experts & Implementers, EPO 4.1 Continuously set and diligently pursue high-performance standards and improvement goals for themselves and for their organization and EPE 4.2 Accurately describe the knowledge and skills that adept career professionals in their field consistently demonstrate, and evaluate whether theirs compare favorably*)
2. assume successful roles in schools through self-directed research-based skills needed in the challenging landscape of education along with the sharing authentic service to the community; Develop Innovative Curricula, instructional plans, teaching approaches, and resources for diverse learners. (CMO 76 s. 2017) (*LPO 2. Cutting-Edge, Resilient, VISIONARIES & INNOVATORS, EPO 2.2 Gather information on emerging trends in their field and propose noble ways they could incorporate them into their work*)



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3. achieve advanced knowledge in skills in the interdisciplinary and multidisciplinary field of academic and educational practice (*LPO 4. Reliable, Productive Experts & Implementers, EPO 4.1 Continuously set and diligently pursue high performance standards and improvement goals for themselves and for their organization*)
4. Integrate all learnings from the program into practical projects that would demonstrate expertise in the discipline and would attempt to address the needs, values and preferences of the client/s served in innovative and creative ways. (*LPO 2. Cutting-Edge, Resilient, VISIONARIES & INNOVATORS, EPO 2.4 Look beyond conventional approaches to challenges in their field and identify creative ways these could be addressed and LPO 5. Dedicated, Transformative SUPPORTERS & STEWARDS of ALL CREATION; EPO 5.3 Devote their time, talents, and resources to improving and maintaining the well-being and health of peoples, especially the less privileged and underserved*)
5. practice life long learning with a substantial degree of independence that involves individual work or teams of interdisciplinary or multidisciplinary experts. (*LPO 4. Reliable, Productive Experts & Implementers, EPO 4.5 Develop and regularly update a performance portfolio of their advancements in knowledge, techniques, and tangible accomplishments; LPO 3. Engaging, Trustworthy TEAM BUILDERS & MENTORS, EPO 3.4 Initiate and develop jointly beneficial projects with colleagues in which plans and responsibilities are equitably shared, reliably carried out, and honestly evaluated by all*)
6. live and share the Paulinian charism in his/her workplace (*LPO 1 Ethical, Paulinian LEADERS & PROFESSIONALS, EPO 1.4 Articulate, advocate, and exemplify Paulinian ideals and values in their private and professional lives nurtured by prayer and a deep relationship with God*)
7. make a beginning leadership contribution to one's organization, community and nation. (*LPO 1 Ethical, Paulinian LEADERS & PROFESSIONALS, EPO 1.1 Consistently adhere to acknowledged moral standards of decision making and behavior in their personal, professional and organizational affairs and LPO 5. Dedicated, Transformative SUPPORTERS & STEWARDS of ALL CREATION, EPO 5.3 Devote their time, talents, and resources to improving and maintaining the well-being and health of peoples, especially the less privileged and underserved*)

PROGRAM GRADUATE OUTCOMES (Common to the discipline- Teacher Education, CMO # 75 S. 2017)

1. Articulate the rootedness of education in philosophical, socio-cultural, historical, psychological, and political context
2. Demonstrate mastery of subject matter/ discipline.
3. Facilitate learning using a wide range of teaching methodologies and delivery modes appropriate to specific learners and their environments.
4. Develop innovative curricula, instructional plans, teaching approaches and resources for diverse learners.



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5. Apply skills in the development and utilization of ICT to promote quality, relevant, and sustainable educational practices.
6. Demonstrate a variety of thinking skills in planning, monitoring, assessing, and reporting learning processes and outcomes
7. Practice professional and ethical teaching standards sensitive to the changing local, national, and global realities.
8. Pursue lifelong learning for personal and professional growth through varied experiential and field-based opportunities.

SPECIFIC TO A SUB- DISCIPLINE AND MAJOR (CMO#75 S. 2017)

Bachelor in Secondary Education Major in Science

1. Demonstrate deep understanding of scientific concepts and principles
2. Apply scientific inquiry in teaching and learning
3. Utilize effective science teaching and assessment methods

Total Number of Units : BEd Science - 189

BEd Science with MACDDS- 216

Major Requirement and Student Output:

- Teaching Demonstrations
- Prepared Lesson Plans
- Instructional Materials
- Self-made video presentations
- Creative Presentations
- Workbooks
- Compilations of Different Assessment Forms
- Undergraduate Thesis
- FS 1&2 Portfolio and Practice Teaching

CURRICULUM OUTLINE

GENERAL EDUCATION COURSES (36 UNITS)

GEC 101	UNDERSTANDING THE SELF
GEC 102	READINGS IN PHILIPPINE HISTORY
GEC 103	THE CONTEMPORARY WORLD



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GEC 104	MATHEMATICS IN THE MODERN WORLD
GEC 105	PURPOSIVE COMMUNICATION
GEC 106	ART APPRECIATION
GEC 107	SCIENCE, TECHNOLOGY AND SOCIETY
GEC 108	ETHICS
GEC 109	LIFE AND WORKS OF RIZAL
GEC 110.1	GE ELECTIVE 1 (ENVIRONMENTAL SCIENCE)
GEC 111	GE ELECTIVE 2 (LIVING IN THE IT ERA)
GEC 112.4	GE ELECTIVE 3 (PHILIPPINE POPULAR CULTURE)

MANDATED COURSES: 14 UNITS

PE 101	GYMNASTICS
PE 102	DANCING
PE 103	SPORTS
PE 104	SWIMMING
NSTP 101	NATIONAL SERVICE TRAINING PROGRAM 1
NSTP 102	NATIONAL SERVICE TRAINING PROGRAM 2

PROFESSIONAL EDUCATION COURSES: 42 UNITS

PED 101	THE TEACHING PROFESSION
PED 102	THE TEACHER AND THE COMMUNITY, SCHOOL CULTURE AND ORGANIZATIONAL LEADERSHIP
PED 103	FOUNDATION OF SPECIAL AND INCLUSIVE EDUCATION
PED 104	THE CHILD AND ADOLESCENT LEARNERS AND LEARNING PRINCIPLES
PED 105	FACILITATING LEARNER-CENTERED LEARNING
PED 106	ASSESSMENT IN LEARNING 1
PED 107	ASSESSMENT IN LEARNING 2
PED 108	TECHNOLOGY FOR TEACHING AND LEARNING 1
PED 109	THE TEACHER AND THE SCHOOL CURRICULUM
PED 110	BUILDING AND ENHANCING NEW LITERACIES ACROSS THE CURRICULUM
PED 111	FIELD STUDY 1
PED 112	FIELD STUDY 2
PED 113	TEACHING INTERNSHIP

COURSES DESCRIPTIONS OF PROFESSIONAL EDUCATION SUBJECTS

PED 101 THE TEACHING PROFESSION

This course deals with a 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.



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PED 102 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.

PED 103 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 need (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.

PED 104 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.

PED 105 FACILITATING LEARNER-CENTERED LEARNING

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

PED 106 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 student to go through the standard steps in test construction and development and the application in grading system.

PED 107 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 assessment.

PED 108 TECHNOLOGY FOR TEACHING AND LEARNING 1



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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 designs of learning lessons, teaching-learning experiences an assessment task that utilize appropriate traditional and innovative technologies with social, ethical and legal responsibility in the use of technology tools and resources.

PED 109 THE TEACHER AND THE SCHOOL CURRICULUM

This course includes the fundamental concepts and principles in curriculum and curriculum development as a foundation to engage prospective teachers as curricularists. The more active role of the teacher in planning, implementing and evaluating school-curriculum as well as in managing school curriculum change vis-à-vis various context of teaching-learning and curricular reforms shall be given emphasis.

PED 110 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.

PED 111 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 other shall be given emphasis. A portfolio shall be required in the course.

PED 112 FIELD STUDY 2 Participation and Teaching Assistantship

This course is a continuation of Field Study 1. It is school based and allows 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 bulletin boards, and other routines in the classroom. A portfolio which will contain sample lesson 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.

PED 113 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 Teacher Internship. A teaching portfolio shall be required and the completion of the Action Research.

SPECIALIZATION/ MAJOR COURSES : 73 UNITS



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Genetics (lecture & laboratory) – -----	4units
Cell and Molecular Biology (lecture & laboratory) -	4 units
Microbiology and Parasitology (lecture and laboratory)-----	4 units
Anatomy and Physiology (lecture and laboratory)-----	3 units
Inorganic Chemistry (lecture & 2 units laboratory) -----	5 units (3-2)
Organic Chemistry (lecture & 2 units laboratory) - -----	5 units (3-2)
Biochemistry -----	3units
Analytical Chemistry (lecture & 2 units laboratory) – -----	5 units (3-2)
Thermodynamics (lecture & laboratory) -----	4 units
Modern Physics -----	- 3 units
Electricity and Magnetism (lecture and laboratory)-----	4 units
Waves and Optics (lecture and laboratory) -----	4 units
Fluid Mechanics -----	3 units
Earth Science -----	3 units
Astronomy -----	3 units
Environmental Science -----	3 units
The Teaching of Science/ Teaching the Specialized Field -----	3 units
Technology for Teaching and Learning 2-----	3 units
Research in Teaching -----	3 units
Meteorology -----	3 units
Research 2 -----	3 units

COURSE DESCRIPTIONS

Genetics (lecture) – -----3units

This course deals with the principles of heredity and variation; its application in plant and animal breeding, and problems involved in it. It also includes biometrical treatment of qualitative and quantitative characters of both plants and animals.

Genetics (Laboratory) ----- 1 unit

This course deals with exercises on chromosomal basis of inheritance structure of genetic material and Mendelian and Non- Mendelian inheritance.

Cell and Molecular Biology (lecture) - 3 units

This course deals with the study of the structure and function of cellular organelles and inclusions including the relationship between cell and structure and biochemical reactions. It also includes basic discussions on the central dogma of molecular biology and updates on DNA technology.

Cell and Molecular Biology (Laboratory) – 1 unit

This course deals with the enhancement of skills for the use of laboratory equipment in the study of structure and function of organelles. It also includes investigations of cellular processes through chromatography, centrifugation, spectrophotometry and electrophoresis.



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Microbiology and Parasitology (lecture)- 3 units

This course deals with the study of bacteria, viruses, protozoan, fungi and helminths, their general characteristics, pathogenicity, source and mode of transmission. This course also covers the principles that underline infection, disease control and prevention, as well as immunity. The impact of microorganisms on human health and environment, as well as their applications in industry are also given emphasis.

Microbiology and Parasitology (Laboratory) – 1 unit

This laboratory course gives emphasis on activities that demonstrates major concepts of microbiology and parasitology. This course is designed develop laboratory skills, including microscopy, aseptic technique, staining methods, culture methods, and identification of microorganisms.

Anatomy and Physiology (lecture) 3 units

This 3-unit course deals with the study of fundamental structures of the human body and their corresponding functions. It emphasizes the integration of the organ systems in relation to normal health and provides information on associated disorders.

Anatomy and Physiology (Laboratory) 1 unit

This 1-unit laboratory course deals with experiments involving the organ systems of the human body. It also designed to develop the skills in the macroscopic and microscopic examinations of the tissues and organs of the human body.

Inorganic Chemistry (lecture & 2 units laboratory) – 5 units (3-2)

The course covers fundamental concepts of chemical kinetics, chemical equilibrium (including acid-base chemistry and solubility equilibrium), thermodynamics, and electrochemistry. It also deals with solution chemistry, specifically reactions in aqueous solutions as well as group properties and reactions of elements as an introduction to qualitative analysis of cations and anions

Organic Chemistry (lecture & 2 units laboratory) - 5 units (3-2)

An organic laboratory course designed to develop skills and techniques in the separation and purification of organic compounds. The laboratory course serves as the venue for the observation of structural effects on the physical and chemical properties of organic compounds.

Biochemistry - 3 units

This course covers the fundamental aspects of biochemistry and the structure and dynamics of important cellular components. The structure, properties, functions and metabolism of carbohydrates, proteins, lipids and other important biochemical compounds are also discussed.

Analytical Chemistry (lecture) – 3 units



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The course involves a study of the principles and theories important to the practice of analytical chemistry. It involves a discussion of the techniques, methods and instrumentation involved in determining the amount of constituents in samples. Particular attention is given to stoichiometric problems.

Analytical Chemistry (Laboratory) 2 unit

The laboratory work covers calibration of instruments, volumetric and gravimetric methods especially those analyses encountered in industries. Emphasis is placed on correct laboratory procedures and techniques.

Thermodynamics (lecture & laboratory) - 4 units

This course includes temperature and heat, thermal properties of matter, laws of thermodynamics

Modern Physics - 3 units

This course covers topics including relativity, photoelectric effect, Bohr model, wave-particle duality, and quantum mechanics

Electricity and Magnetism (lecture and laboratory)- 4 units

This course is designed to discuss knowledge of basic relationship between electricity and magnetism. It includes topics on electro statics and magnetism, electric and magnetic fields in matter electrostatics and electromagnetic waves. It provides the students the mathematical relationship between current, voltage and resistance in an electric circuit. Students must gain skills in solving problems needing high mathematical analysis apart from the principles comprising this area of physics. Upon knowing the relationship between electricity and magnetism students must be able to apply the concepts and principles to real life situations for life long- learning.

Waves and Optics (lecture and laboratory) - 4 units

The course discusses the fundamental concepts of mechanical and electromagnetic waves. It describes the production and propagation of waves, its characteristics, types and properties. It also deals with simple harmonic motion. This course also gives emphasis on the nature and duality of light with emphasis on physical and geometric optics. Learning waves and optics allows the students to gain insights on the importance of waves on daily activities and applies the concepts and principles in problem solving.

Fluid Mechanics ----- 3 units

This course deals with the science of fluids(liquids and gases). It discusses aerodynamics- the study of liquids in motion. It discusses principle relating speed, pressure and forces particularly Bernoulli and Pascal's principles. It allows the students to gain knowledge of how this topic is applied to daily activities and solve practical problems.

Earth Science ----- 3 units

This 3-unit course deals with the fundamental and historical geology, Geological process such as rock formation, minerals and soil, weathering, erosion and mass movement, seismology, volcanism, and plate



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tectonics will be emphasize. Issues concerning the importance, exploration, utilization and conservation of mineral resources will also be dealt with.

Astronomy -----3 units

This 3-unit course deals with the various motions observed in the heavens and the fundamental physical laws that govern them. This course also includes a discussion of the theories behind the formation of the solar system

Environmental Science ----- 3 units

This 3-unit course deals with the general concepts and principles pertaining to complex pattern of interaction between the physical environment and biological communities on earth. Emphasis is also given on the current environmental issues and concerns as well as disaster risk management techniques.

The Teaching of Science/ Teaching the Specialized Field – 3 units

Deals with the goals, materials, content, assessment, management and methods of teaching science at the secondary level; provides opportunities for class observation and demonstration teaching.

Prerequisite: has finished content courses and Educational Psychology.

Technology for Teaching and Learning 2----- 3 units

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 Science 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.

Research in Teaching ----- 3 units

This is an action research in the content or pedagogy of science in any of the four areas: Biology , Chemistry, Physics and Earth Science.

Meteorology ----- 3 units

This is an action research in the content or pedagogy of science in any of the four areas: Biology , Chemistry, Physics and Earth Science.

RELIGIOUS EDUCATION COURSES: 24 UNITS

RED 101	REVELATION AND FAITH IN THE OLD TESTAMENT
RED 102	REVELATION AND FAITH IN THE NEW TESTAMENT
RED 103	CHURCH
RED 104	LITURGY AND SACRAMENTS
RED 105	CHRISTIAN MORALITY : GENERAL MORALS
RED 106	CHRISTIAN MORALITY : SPECIFIC MORALS



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RED 107	CHRISTIAN VOCATION AND MISSION
RED 108	CATHOLIC SOCIAL TEACHING

MACDDS COURSES: 27 UNITS

MACDDS 201.1	METHODS OF RESEARCH WITH EDUCATIONAL STATISTICS
MACDDS 203	CURRICULUM DEVELOPMENT: THEORY AND PROCESS
MACDDS 204.1	TEACHING AND LEARNING THEORIES, MODELS AND METHODOLOGIES
MACDDS 205	CURRICULUM IMPLEMENTATION AND SUPERVISION
MACDDS 207	ASSESSMENT AND EVALUATION OF LEARNING
MACDDS 208	DESIGNING AND DEVELOPING THE CURRICULUM AND INSTRUCTION
MACDDS 210.1	THINKING SKILLS FOR TEACHERS
MACDDS 211	CURRICULUM DOCUMENTS AND MATERIALS DEVELOPMENT
MACDDS-ENG 200	READING AND WRITING SKILLS

TOTAL: 36+ 14 + 42 + 76 + 24 + 27 = 219 UNITS



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BACHELOR OF SECONDARY EDUCATION MAJOR IN SCIENCE WITH MACDDS (Effective AY 2021 – 2022 onwards otherwise revised)

PROGRAM MAP

FIRST YEAR

1st Semester – 26 units

RED 101	REVELATION AND FAITH IN THE OLD TESTAMENT
GEC 101	UNDERSTANDING THE SELF
GEC 105	PURPOSIVE COMMUNICATION
GEC 108	ETHICS
PED 101	THE TEACHING PROFESSION
PED 102	THE TEACHER AND THE COMMUNITY, SCHOOL CULTURE AND ORGANIZATIONAL LEADERSHIP
PED 103	FOUNDATION OF SPECIAL AND INCLUSIVE EDUCATION
PE 101	GYMNASTICS
NSTP 101	NATIONAL SERVICE TRAINING PROGRAM 1

2nd Semester – 27 units

RED 102	REVELATION AND FAITH IN THE NEW TESTAMENT
GEC 104	MATHEMATICS IN THE MODERN WORLD
GEC 106	ART APPRECIATION
GEC 107	SCIENCE, TECHNOLOGY AND SOCIETY
PE 102	DANCING
NSTP 102	NATIONAL SERVICE TRAINING PROGRAM 2
PED 104	THE CHILD AND ADOLESCENT LEARNERS AND LEARNING PRINCIPLES
PED 109	THE TEACHER AND THE SCHOOL CURRICULUM
BIO	ANATOMY AND PHYSIOLOGY (LEC & Lab)

SECOND YEAR

1st Semester - 28 Units

RED 103	CHURCH
GEC 103	THE CONTEMPORARY WORLD
GEC 102	READINGS IN PHILIPPINE HISTORY
PE 103	SPORTS
PED 105	FACILITATING LEARNER-CENTERED LEARNING
CHEM 1	INORGANIC CHEMISTRY (Lec & Lab)
	EARTH SCIENCE
PHYS 1	FLUID MECHANICS



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2nd Semester – 29 units

RED 104	LITURGY AND SACRAMENTS
GEC 109	LIFE AND WORKS OF RIZAL
GEC 110.1	GE ELECTIVE 1 (ENVIRONMENTAL SCIENCE)
PE 104	SWIMMING
PED 108	TECHNOLOGY FOR TEACHING AND LEARNING 1
PED 110	BUILDING AND ENHANCING NEW LITERACIES ACROSS THE CURRICULUM
CHEM 3	ORGANIC CHEMISTRY (Lec & Lab)
BIO 3	MICROBIOLOGY AND PARASITOLOGY (Lec & Lab)
MACDDS 203	CURRICULUM DEVELOPMENT: THEORY AND PROCESS

Special Term – 9 Units

MACDDS 210.1	THINKING SKILLS FOR TEACHERS
PED 106	ASSESSMENT IN LEARNING 1
PHYS 2	THERMODYNAMICS (L&L)

THIRD-YEAR

1st Semester - 29 Units

GEC 111	GE ELECTIVE 2 (LIVING IN THE IT ERA)
RED 105	CHRISTIAN MORALITY : GENERAL MORALS
PED 107	ASSESSMENT IN LEARNING 2
PED 111	FIELD STUDY 1
CHEM 4	BIOCHEMISTRY
BIO 2	CELL AND MOLECULAR BIOLOGY (Lec & Lab)
PHYS 3	ELECTRICITY AND MAGNITISM (LEC & LAB)
MACDDS 204.1	TEACHING AND LEARNING THEORIES, MODELS AND METHODOLOGIES

2nd Semester – 24 units

GEC 112.4	GE ELECTIVE 3 (PHILIPPINE POPULAR CULTURE)
RED 106	CHRISTIAN MORALITY : SPECIFIC MORALS
PED 112	FIELD STUDY 2
CHEM 2	ANALYTICAL CHEMISTRY (lec &lab)
BIO 1	GENETICS (Lec & Lab)
	ENVIRONMENTAL SCIENCE
PHYS 4	WAVES AND OPTICS



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FOURTH-YEAR

1st Semester - 27 units

RED 107 CHRISTIAN VOCATION AND MISSION
PHYS MODERN PHYSICS
TEACHING OF SCIENCE/ TEACHING THE SPECIALIZED FIELD
RESEARCH IN TEACHING
MACDDS 201.1 METHODS OF RESEARCH WITH EDUCATIONAL STATISTICS
MACDDS 207 ASSESSMENT AND EVALUATION OF LEARNING
MACDDS 208 DESIGNING AND DEVELOPING THE CURRICULUM AND INSTRUCTION
MACDDS 211 CURRI CULUM DOCUMENTS AND MATERIALS DEVELOPMENT
MACDDS-ENG 200 READING AND WRITING SKILLS

2nd Semester – 15 units

PED 113 TEACHING INTERNSHIP
RED 108 CATHOLIC SOCIAL TEACHING
RESEARCH IN TEACHING 2
MACDDS 205 CURRICULUM IMPLEMENTATION AND SUPERVISION

Prepared by:

Ms. Eva R. Navarro, MAT, MACDDS

TEP Chairperson