



119TH BOARD OF REGENTS MEETING

BOR RESOLUTION NO. 40
Series of 2025

APPROVING THE CONVERSION OF THE MASTER IN EDUCATION (M.ED.) PROGRAM TO MASTER OF ARTS IN EDUCATION (MAED) IN THE VISAYAS STATE UNIVERSITY AS PRESENTED AND DISCUSSED IN THE COPY OF THE PROPOSAL, THE DETAILS OF WHICH ARE REFLECTED IN THE DOCUMENT HERETO ATTACHED AND MADE PART HEREOF

WHEREAS, Section 4 (i) Republic Act No. 8292, also known as the "Higher Education Modernization Act of 1997", provides the framework for SUC governance and establishes the powers of the SUC's governing board, including the authority to approve the curricula, institutional programs and rules of discipline drawn by the administrative and academic council;

WHEREAS, the Commission on Higher Education (CHED) issued Memorandum Order No. 15, series of 2019, which sets the revised policies, standards, and guidelines for graduate programs, with a particular emphasis on the cultivation of research and innovation;

WHEREAS, the Visayas State University has offered Master in Education (M.Ed.) since SY 2007-2008, a non-thesis program designed to enhance the professional competence of educators in Baybay City and other parts of Leyte;

WHEREAS, the academic landscape in the graduate program offerings has significantly changed to meet the demands of globalization, regional integration and internationalization of higher education;

WHEREAS, with the evolving needs and current demand of the program's stakeholders, the Faculty of Teacher Education proposed converting its Master in Education (M.Ed) to Master of Arts in Education with a thesis component aligned with CHED Memorandum Order No. 15, s. 2019;

WHEREAS, the Board of Regents agreed that all necessary adjustments to the program's curriculum, course content, objectives and total academic units shall be incorporated during its implementation;

WHEREAS, this proposal has undergone consultation with faculty, students, and stakeholders, and has been endorsed by the University Academic Council (UAC) at its February 13, 2025 meeting;

WHEREAS, finding the recommendation in order, the Governing Board has agreed to approve the proposal;

NOW, THEREFORE, on motion, duly seconded, and unanimously approved, be it;

RESOLVED, as it is hereby resolved, that the Board of Regents of Visayas State University approves the conversion of the Master in Education to Master of Arts in Education (MAEd) in the Visayas State University, as presented and discussed in the copy of the proposal, the details of which are reflected in the document hereto attached and made part hereof.

APPROVING THE CONVERSION OF THE MASTER IN EDUCATION (M.ED.) PROGRAM TO MASTER OF ARTS IN EDUCATION (MAED) IN THE VISAYAS STATE UNIVERSITY AS PRESENTED AND DISCUSSED IN THE COPY OF THE PROPOSAL, THE DETAILS OF WHICH ARE REFLECTED IN THE DOCUMENT HERETO ATTACHED AND MADE PART HEREOF

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IN WITNESS of our approval thereof, we affix our signatures this 29th day of April 2025 at VSU, Baybay City, Philippines.

VSU BOARD OF REGENTS


HON. ETHEL AGNES P. VALENZUELA

CHED Commissioner and Chairperson
VSU-Board of Regents


HON. PROSE IVY G. YEPES

VSU President, Vice Chairperson
VSU-Board of Regents

(Absent)

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Member, VSU BOR


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HON. OSCAR B. POSAS

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Member, VSU BOR


HON. RYAN C. ILAIDA

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Private Sector Representatives:


HON. ALAIN CHARLES J. VELOSO

Member, VSU BOR
Villaba, Leyte


HON. RUPERTO O. APARRI, III

Member, VSU BOR
Tacloban City, Leyte



College of Education
Department of Teacher Education

I. TITLE: PROPOSAL TO CONVERT THE MASTER IN EDUCATION (M.ED) PROGRAM TO MASTER OF ARTS IN EDUCATION (MA.ED) OF VISAYAS STATE UNIVERSITY

II. RATIONALE

Visayas State University has been offering a Master in Education (M.Ed.) program since S.Y. 2007-2008. M.Ed. is a non-thesis graduate program offered on weekends in response to the clamour of elementary and secondary school teachers in Baybay City and other parts of Leyte for an accessible weekend graduate program in education. However, the landscape in the graduate program offerings has significantly changed in the past decades. Such significant change is essential to meet the demands of globalization, regional integration, and internalization of higher education; hence, the Commission on Higher Education issued CMO #15 s, 2019 - a revised set of policies, standards, and guidelines for graduate programs. One crucial element included in this reform is the cultivation of a culture of research and innovation in graduate programs (par. 4, section 1, and article 1 of CMO #15 s. 2019). CHED is not the only government agency that advocates for a culture of research. The Department of Education likewise advances the conduct of research by issuing an order (DO No.39, series 2016) to all of its school heads, supervisors, and teachers to adopt the "Basic Education Research Agenda," promoting evidence-based practice through the conduct of basic and action research. Such a practice's essential idea is that teachers' decisions should be based on the best available evidence collected through rigorous research. The preceding reforms have influenced the teachers' perspective about research and their outlook towards pursuing a graduate degree. Taking a graduate degree with a thesis in research also offers more benefits to teachers since research involvement has become one of the annual performance appraisal indicators for all DepEd teachers. It comprises five percent of the total score in the individual teacher's evaluation. In a survey conducted last March 2024, with 73 who responded the survey, 50% chose MA.Ed with thesis as program of their choice, while 35% chose M.Ed then proceed to MAEd and 15% chose M.Ed with capstone project.



On the other hand, there has been a growing demand from BSEd major in Mathematics graduates to pursue graduate studies. Especially now that the BSEd-Mathematics was awarded the Level IV Accredited status by the AACCUP. DTE has also received a lot of inquiries about this major field and even requests of opening mathematics as a major field in master's degree program. To further assess the demand of Mathematics, the department conducted an online survey last March 2024. Results showed that 43.8% of the respondents (n=73) are interested to enroll in MA.Ed major in Mathematics and 100% of the respondents prefer weekend classes. This is because most of the respondents are public and private school teachers in Baybay and Ormoc City. Hence, there is a need to offer Mathematics as a major field in the Master in Education program and this will encourage teachers especially those living near the University to enrol in the said program.

During the university curriculum review held from August 30 to September 1, 2023, stakeholders suggested converting the M.Ed program to MA.Ed with a thesis component to align the program with CMO 15, 2019 and with this change also reflects the current demand among teachers in both private and public schools. Additionally, there was a request to introduce Mathematics as a new major within the MA.Ed program. In order to ensure that the degree offerings at VSU are aligned with the evolving needs of our students, the Department of Teacher Education in the College of Education, in collaboration with the Graduate School and the affiliate academic departments, is proposing the following revisions. These changes aim to enhance the academic rigor of our program and better prepare our graduates for the challenges they will face in their professional careers. By incorporating stakeholder feedback, we aim to create a more responsive and relevant educational experience that meets the needs of both current and future educators.

III. OBJECTIVES

Cognitive

Develop the competencies of classroom teachers and other education professionals to undertake research in specific field of specialization within the broad field of educational discipline and practice.

Produce educators who are knowledgeable in content and pedagogy, and can adapt to innovations in technology and knowledge creation;

Affective

Exemplify discipline and moral lifestyle that students can look up to and emulate.

Foster collaboration among peer educators to work together harmoniously within the academic community.

Psychomotor

Create and apply modern strategies for teaching and learning.

Conduct research within classroom and school settings.

II. ADMISSION REQUIREMENTS

Admission of students to the MA.Ed program follows the Graduate School Code (GSC) and the Graduate Programs Manual of Operation (GPMO) approved by the VSU Board of Regents.

The specific guidelines for admitting students are as follows:

1. Prospective graduate students should apply for admission to the Graduate School before the beginning of the expected term of enrollment. Before registration, all required documents, including application fees must be received at the Graduate School not later than two weeks for local students, and eight weeks for foreign students.
2. Applicants seeking admission to MA.Ed program must be holders of teacher education bachelors' degree from any recognized institution for registration to the program. If an applicant does not hold a degree in teacher education, they will be required to complete an undergraduate courses to help bridge any gaps in the applicant's background and align them with the academic standards and expectations of the program. The Graduate Admissions Committee (GAC) of the department determines the acceptability of the applicant after submission of the following:
 - a. Accomplished application forms for admission (FM-OGS-01);
 - b. Official Transcript of Records (TOR) bearing the official seal of the school;
 - c. Candid appraisal of the applicant using FM-OGS-02 by at least two former professors or supervisors which must be sent directly to the Graduate School by separate mail;

- d. Certification of English proficiency or an acceptable score in the Test of English as a Foreign Language (TOEFL). This is specifically required for a foreign applicant whose native language is not English;
 - e. A non-refundable application fee.
3. The concerned department, through its GAC, shall evaluate the qualifications of the applicant based on the documents submitted and other requirements. Documents submitted to the Graduate School pertinent to application for an admission become part of the official files.

For admission as regular students to the master's degree program, only applicants who graduated in the baccalaureate degree program with at least a Grade Point Average (GPA) of 2.00 or its equivalent in the entire course shall be considered eligible. In exceptional cases, a student with a GPA lower than the prescribed weighted average may be admitted in any master's program, provided that the GPA is not lower than 2.50.

A. Course Requirements

A graduate student in the MA.Ed program shall take a minimum of 28 academic units of course work and 6 units of thesis. As stipulated in the OGS-GPMO, a student can enroll thesis units after earning 9 units (6 units core/major courses) of graduate courses and having a GPA of at least 2.0. Based on the GPMO and CMO No. 15, s. 2019, a MA.Ed graduate student is required to pass a comprehensive examination. In addition, as a final output, a student must have at least (1) publication in refereed and indexed journal or a juried creative work outlet

III. GRADUATE PROFILE

1. Identify and analyze problems and formulate plans that would improve classroom management, teaching strategies, course competence, student development, and pedagogical skills;
2. Discuss significant developments that influence educational practices;
3. Observe the professional code of ethics for 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;
4. Demonstrate a disciplined and moral lifestyle worth emulating by students;
5. Desire to keep abreast with the recent trends, issues and concerns in teacher education;
6. Implement programs and projects that will redound to the improvement of the quality of education;
7. Create a favorable and appropriate learning environment through the use of updated course contents, appropriate instructional materials and effective teaching strategies.

IV. PROGRAM OUTCOMES

1. Demonstrate in-depth understanding of a complex and coherent body of knowledge and skills in an area of study in education, which may be applied in many types of school or other educational environments;
2. Demonstrate a higher order level of skill in the analysis, critical assessment, and application and communication of knowledge in the field;
3. Demonstrate an ability to apply knowledge and skills in the field to new situations in more creative and flexible ways, and to solve complex problems in the field in ways that involve rigorous thinking and independent work;
4. Apply current knowledge in original ways to specific problems or context by understanding research, a complex project, or some other form of advanced scholarship;
5. Demonstrate a comprehensive understanding of the methods of inquiry in their own research or advanced scholarship, and how these methods are used to create and interpret knowledge in the field.

V. COURSE SUMMARY

No. of Units		
Existing	Proposal	CMO 15, s. 2019

Core Courses	15	9	At least 24 units coursework
Major Courses	18	12	
Cognate/ Minor Courses	9	6	
Graduate Seminar	None	1	
Master's Thesis	None	6	6
	42	34	30

**A maximum of 6 units of course(s) relevant to the program (as determined by the GAC) taken abroad under an approved international academic exchange program, maybe credited as elective course(s), but based on a BOR-Approved credit transfer system.*

VI. SCHEDULE OF COURSE OFFERINGS

TERM	Course No.	Descriptive Title	Hours		Units	Rating	PREREQUISITE
			Lec	Lab			
1st Semester	FIRST YEAR						
Core Courses	EDUC201	Foundations of Education	3		3		None
	EDUC203	Methods in Educational Research	3		3		None
Biology	BIOL227	Developmental Biology	3	2	3		COI/COP
	BIOL293	Microbiological Techniques	3		3		COI/COP
Chemistry	CHEM207	Environmental and Green Chemistry	3		3		None
	CHEM209	Organic Chemistry for Educators	3	2	3		None
PE	PHED207	Current Trends in Physical Education	3		3		None
	PHED209	Sports Psychology	3		3		None
English	ENGL229	Western Literary Works	3		3		None
	LTNG207	Introductory Linguistics	3		3		None
Math	MATH201	Strategies in Teaching Mathematics	3		3		None
	MATH203	Linear Algebra	3		3		College Algebra
2nd Semester	FIRST YEAR						
Core Courses	EDUC202	Social Science Statistics	3		3		None
Biology	BIOL238	Molecular Biology	3		3		COI/COP
	BIOL292	Microtechniques in Biology	3	2	3		COI/COP

	BIOL 205	Biological Diversity of Tropical Ecosystems	3		3		COI/COP
Chemistry	CHEM206	Foundations of Inorganic Chemistry	3		3		None
	CHED208	Chemical Thermodynamics, Equilibrium and Kinetics	3		3		None
	CHEM212	Foundations of Analytical Chemistry	3	2	3		None
PE	PHED206	Administration of Physical Education	3		3		None
	PHED208	Curriculum Development in Physical Education	3		3		None
	PHED212	Dance Composition and Production	3		3		None
English	ENGL232	Studies in Philippine Literature	3		3		None
	LTNG212	Techniques in Advanced Composition	3		3		None
	LTNG216	Teaching Speech Communication	3		3		None
Math	MATH200	Set and Number Theory	3		3		None
	MATH202	Mathematical Analysis	3		3		None
	MATH204	Abstract Algebra	3		3		None
1st Semester	SECOND YEAR						
Biology	BOTN215	Advances in Plant Growth and Development	3		3		COI/COP
Chemistry	CHEM211	Chemistry in Living Systems	3		3		None
PE	PHED211	Organization and Administration of Recreation	3		3		None
English	LTNG211	Teaching Literature	3		3		None
Math	MATH205	Modern Geometry	3		3		None
Thesis	EDUC204	Graduate Seminar	1		1		None
	EDUC300	Thesis Writing I			3		EDUC202 EDUC203
2nd Semester	SECOND YEAR						
Thesis	EDUC300	Thesis Writing II			3		EDUC300

Courses	No. of Units
A. Core Courses:	9
EDUC201 - Foundations of Education	3
EDUC202 - Social Science Statistics	3
EDUC203 - Methods in Educational Research	3
EDUC204 - Graduate Seminar	1
B. Major Courses (Student Choice of 12 Units)	12
1. English	
ENGL229 - Western Literary Works	3
ENGL232 - Studies in Philippine Literature	3
LTNG207 – Introductory Linguistics	3
LTNG211 - Teaching Literature	3
LTNG212 - Techniques in Advanced Composition	3
LTNG216 - Teaching Speech Communication	3
2. Physical Education	
PHED206 - Administration of Physical Education	3
PHED207 - Current Trends in Physical Education	3
PHED208 - Curriculum Development in Physical Education	3
PHED209 - Sports Psychology	3
PHED211 – Organization and Administration of Recreation	3
PHED212 - Dance Composition and Production	3
3. Biology	
BIOL238 - Molecular Biology	3
BIOL227 - Developmental Biology	3
BIOL293 - Microbiological Techniques	3
BIOL292 – Microtechniques in Biology	3
BOTN215 - Advances in Plant Growth and Development	3
BIOL 205 - Biological Diversity of Tropical Ecosystems	3
4. Chemistry	
CHEM206 – Foundations of Inorganic Chemistry	3
CHEM207 – Environmental and Green Chemistry	3
CHEM208 - Chemical Thermodynamics, Equilibrium and Kinetics	3
CHEM209 - Organic Chemistry for Educators	3
CHEM211 - Chemistry in Living Systems	3
CHEM212 – Foundations of Analytical Chemistry	3
5. Mathematics	
MATH200 – Set and Number Theory	3
MATH201 – Strategies in Teaching Mathematics	3
MATH202 – Mathematical Analysis	3
MATH203 – Linear Algebra	3
MATH204 – Abstract Algebra	3
MATH205 – Modern Geometry	3
C. Cognate/ Minor Courses (Courses from Another Field of Specialization)	6

D. Master's Thesis	6
<i>(After passing the Comprehensive Exam)</i>	
EDUC300-Thesis Writing I (Proposal Writing and Defense)	3
EDUC301-Thesis Writing II (Manuscript Writing and Final Defense)	3

VII. COURSE DETAILS

Core Courses

Course Title	Foundations of Education
Course No.	EDUC201
Unit	3
Prerequisite	None
Course Description	This course provides students with in-depth and comprehensive knowledge about society, human behavior, historical events, philosophical thoughts and relevant legislative actions and decrees that influenced Philippine educational theory and practice which are basic inputs for students' better understanding and management of the educative process.

Course Title	Social Science Statistics
Course No.	EDUC202
Unit	3
Prerequisite	None
Course Description	Descriptive and inferential statistics: organizing, summarizing and providing a description of data in an informative way as well as making a decision, estimating, predicting or generalizing about a population based on sample.

Course Title	Methods in Educational Research
Course No.	EDUC203
Unit	3
Prerequisite	None
Course Description	This course provides an approach to research, methodological choices, integrity of research processes, and tools and techniques for data collection and analysis. Additional topics include reliability and validity, sampling, and evaluating quantitative, qualitative, and mixed methods research designs, with emphasis on adhering to ethical principles and creating research designs that are inclusive and diverse.

Course Title	Graduate Seminar
Course No.	EDUC204
Unit	1
Prerequisite	None
Course Description	Preparation for presentation in conferences, paper critiquing and presentation of research proposals.

Course Title	Master's Thesis
Course No.	EDUC300
Unit	6
Prerequisite	COP
Course Description	Research work, empirical investigation or extensive survey on a chosen topic relevant to major field/specialization.

Major Courses

English

Course Title	Western Literary Works
Course No.	ENGL229
Unit	3
Prerequisite	None
Course Description	This course provides language teachers a substantial knowledge on major literary period in English or American Literature. In addition, language teachers can differentiate remarkably the forms and characteristics of English or American Literature.

Course Title	Studies in Philippine Literature
Course No.	ENGL232
Unit	3
Prerequisite	None
Course Description	This course provides training for language graduate students in analyzing some selected literary masterpieces of Filipino writers.

Course Title	Introductory Linguistics
Course No.	LTNG207
Unit	3
Prerequisite	None
Course Description	Descriptive linguistics covering phonology, morphology, syntax and semantics.

Course Title	Teaching Literature
Course No.	LTNG211
Unit	3
Prerequisite	None
Course Description	Strategies in the teaching of Afro-Asian, Philippine and other selected writings.

Course Title	Techniques in Advanced Composition
Course No.	LTNG212
Unit	3
Prerequisite	None
Course Description	Writing essays, term papers and reports.

Course Title	Teaching Speech Communication
Course No.	LTNG216
Unit	3
Prerequisite	None
Course Description	Principles and Methods of Teaching Speech Communication and Instructional Materials Development

Physical Education

Course Title	Administration of Physical Education
Course No.	PHED206
Unit	3
Prerequisite	None
Course Description	Approaches to administrative and management theories, principles and concepts of physical education programs.

Course Title	Current Trends in Physical Education
Course No.	PHED207
Unit	3
Prerequisite	None
Course Description	Analysis of current practices, materials, and trends in physical education activities and their functions in contemporary physical education program.

Course Title	Curriculum Development in Physical Education
Course No.	PHED208
Unit	3
Prerequisite	None
Course Description	Application of the principles of curriculum making in Physical Education.

Course Title	Sports Psychology
Course No.	PHED209
Unit	3
Prerequisite	None
Course Description	Analysis of psychological factors affecting performance, behavior and emotions of individuals in sports.

Course Title	Organization and Administration of Recreation
Course No.	PHED211
Unit	3
Prerequisite	None
Course Description	Planning and implementation of recreational programs for school, government agencies, industrial firms, hospitals, civic organization and youth agencies.

Course Title	Dance Composition and Production
Course No.	PHED212
Unit	3
Prerequisite	None

Course Description	Principles of dance forms and styles basic to dance composition, dance demonstration and dance concert.
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Biology

Course Title	Molecular Biology
Course No.	BIOL238
Unit	3 (3 hrs/week lecture)
Prerequisite	COI/COP
Course Description	Gene structure, replication; gene expression and regulation; molecular techniques and analysis; biotechnology applications.

Course Title	Developmental Biology
Course No.	BIOL227
Unit	3 units (2 hours/week lecture; 3 hours/week laboratory)
Prerequisite	COI/COP
Course Description	Initiation, differentiation and developmental of tissues and organs of higher plants and animals.

Course Title	Microbiological Techniques
Course No.	BIOL293
Unit	3 units (2 hours/week lecture; 3 hours/week laboratory)
Prerequisite	COI/COP
Course Description	Techniques in the examination, culture and identification of microorganism with emphasis on bacteria and microscopic fungi.

Course Title	Microtechniques in Biology
Course No.	BIOL292
Unit	3 units (2 hours/week lecture; 3 hours/week laboratory)
Prerequisite	COI/COP
Course Description	Laboratory techniques in the preparation of biological materials for cytological and histological studies.

Course Title	Advances in Plant Growth and Biology
Course No.	BOTN215
Unit	3 (3 hrs/week lecture)
Prerequisite	COI/COP
Course Description	Current advances in the study of growth and development processes in plants.

Course Title	Biological Diversity of Tropical Ecosystems
Course No.	BIOL205
Unit	3 (3 hrs/week lecture)
Prerequisite	COI/COP
Course Description	Biodiversity components, levels, patterns, distribution, values, current status, threats, measurements and conservation initiatives; speciation and phylogeny, endemism and extinction.

Chemistry

Course Title	Foundations of Inorganic Chemistry
Course No.	CHEM206
Unit	3 units (3 hrs/week lecture)
Prerequisite	None
Course Description	This course introduces fundamental concepts in inorganic chemistry tailored to educators, including atomic structure, bonding, periodic trends, and the properties of key elements. Topics cover coordination compounds, applications of inorganic compounds in teaching, and basic bioinorganic chemistry. Emphasis is placed on teaching strategies to convey these concepts effectively in secondary education.

Course Title	Environmental and Green Chemistry
Course No.	CHEM207
Unit	3 (3 hrs/week lecture)
Prerequisite	None
Course Description	This course introduces the concepts of environmental and green chemistry, covering topics such as air and water pollution, sustainability, and environmentally friendly chemical practices. The laboratory component includes experiments related to environmental analysis, such as water testing and waste reduction practices. This course helps educators integrate sustainability and environmental awareness into their chemistry curriculum.

Course Title	Chemical Thermodynamics, Equilibrium and Kinetics
Course No.	CHEM208
Unit	3 (3 hrs/week lecture)
Prerequisite	None
Course Description	This course introduces thermodynamics, equilibrium and kinetics in chemistry, focusing on practical applications relevant to teaching. Students will learn about energy changes, equilibrium, reaction rates, extents and catalysis in chemical reactions. Relevant examples will be geared towards understanding and demonstrating these principles at the secondary education level.

Course Title	Organic Chemistry for Educators
Course No.	CHEM209
Unit	3 units (2 hours/week lecture; 3 hours/week laboratory)
Prerequisite	None
Course Description	This course covers essential organic chemistry concepts for educators, including the structure, bonding, and reactivity of organic molecules. Topics include functional groups, basic reaction mechanisms, and applications of organic compounds in everyday life and biological systems. This course emphasizes the practical and pedagogical approaches to teaching organic chemistry topics to students with diverse learning needs.

Course Title	Chemistry in Living Systems
Course No.	CHEM211
Unit	3 (3 hrs/week lecture)
Prerequisite	None

Course Description	This course examines the chemical principles underlying biological systems, including the structure and function of biomolecules such as proteins, nucleic acids, carbohydrates, and lipids. Topics include enzyme catalysis, metabolic pathways, and biochemical signaling. Emphasis is placed on the integration of chemistry and biology, preparing students to understand and explain biochemical processes in living organisms. This course is valuable for educators interested in the chemical basis of life sciences and environmental chemistry.
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Course Title	Fundamentals of Analytical Chemistry
Course No.	CHEM212
Unit	3 units (2 hours/week lecture; 3 hours/week laboratory)
Prerequisite	None
Course Description	This course introduces both qualitative and quantitative analytical techniques, with an emphasis on classical and instrumental methods. Topics include titrimetric and gravimetric analyses, as well as an overview of instrumental methods such as UV-Vis spectroscopy, chromatography, and electrochemical analysis. The laboratory component focuses on essential techniques in quantitative analysis, providing students with hands-on experience in chemical measurement and data interpretation. This course is designed to prepare students for analytical applications in both research and educational settings.

Mathematics

Course Title	Set and Number Theory
Course No.	MATH200
Unit	3 (3 hrs/week lecture)
Prerequisite	None
Course Description	Theory of sets including finite and infinite sets, algebra of sets, and cardinality of finite and infinite sets; theory of numbers including divisibility of natural numbers, induction, primes, congruence, Euler's Theorem, Fermat's Theorem, Wilson's Theorem; linear Diophantine equation; applications (bar codes, coding, perpetual calendars, round-robin tournaments).

Course Title	Strategies in Teaching Mathematics
Course No.	MATH201
Unit	3 (3 hrs/week lecture)
Prerequisite	None
Course Description	This course is to develop and present mathematics lesson using problem solving, manipulatives, and appropriate technology; will be able to select and use different instructional strategies which address the needs of diverse learners; and will be able to assess the outcomes of that instruction.

Course Title	Mathematical Analysis
Course No.	MATH202
Unit	3 (3 hrs/week lecture)
Prerequisite	College Algebra and Plain Trigonometry
Course Description	The theoretical bases of calculus; limits and continuity, derivatives of algebraic and transcendental functions and their applications; the antiderivatives and techniques of integration, definite integral and some applications.

Course Title	Linear Algebra
Course No.	MATH 203

Unit	3 (3 hrs/week lecture)
Prerequisite	College Algebra
Course Description	This course covers matrices, system of linear equations, vector spaces, linear transformations, determinants, eigenvalues and eigenvectors, diagonalization, and inner product spaces.

Course Title	Abstract Algebra
Course No.	MATH 204
Unit	3 (3 hrs/week lecture)
Prerequisite	MATH 200
Course Description	This course covers groups, subgroups, cyclic groups, permutation groups, abelian groups, normal subgroups, quotient groups, and homomorphism and isomorphism theorems.

Course Title	Modern Geometry
Course No.	MATH 205
Unit	3 (3 hrs/week lecture)
Prerequisite	None
Course Description	The first part of the course focuses on Euclidean and affine geometry on the plane. The second half may continue with Euclidean geometry on the sphere; alternatively, an introduction to finite geometries and to the non-Euclidean hyperbolic and elliptic geometries may be given. This course interrelates and makes use of tools from Geometry, Linear Algebra and Abstract Algebra.

VIII. FACULTY PROFILE

Core Faculty

Name of Faculty	Degree Finished	Field of Specialization	Courses to Handle
Abela, Rosario P.	Doctor of Education	Early Childhood Education	EDUC204, EDUC 201
Aure, Ma. Rachel Kim L.	Doctor of Philosophy	Research and Evaluation	EDUC203
Barredo, Bayron S.	Doctor of Education	Educational Management	EDUC201
Mabalhin, Joel Q.	Doctor of Education	Filipino	EDUC 201, EDUC204
Mamolo, Leo A	Doctor of Philosophy	Mathematics Education	EDUC202

English

Name of Faculty	Degree Finished	Field of Specialization	Courses to Handle
Manaig, Marilyn N.	Doctor of Education	English Language Teaching	LTNG207, EDUC300
Garingalao, Krizia G.	Doctor of Education	English Language Teaching	LTNG207, EDUC300

Gabunada, Maria Vanessa E.	Doctor of Philosophy	English Language and Literature	ENGL 32, EDUC300
Parmis, Annie A.	Doctor of Education	English Language Teaching	LTNG207, EDUC300
Martinez, Sergena Ruth	Doctor of Philosophy	English	LTNG212
Villas, Michael Carlo C.	Doctor of Philosophy- (Candidate)	Literature	LTNG211
Acoritay, Daisy P.	Doctor of Education	English Language Teaching	ENGL229, EDUC300

Biology

Name of Faculty	Degree Finished	Field of Specialization	Courses to Handle
Desades, Christy M.	Doctor of Philosophy	Science Education- Biology	EDUC300, BIOL292
Vega, Mark Gil A.	Doctor of Philosophy	Science Education- Biology	EDUC300, BIOL293
Bellen, Joy A.	Ed.D-Science Education	Biology	EDUC300, BIOL292
Belonias, Beatriz S.	Doctor of Philosophy	Botany	BOTN215, BIOL205
Modina, Ris Menoel	Master of Science	Zoology	BIOL227
Miñoza, Darius Noel C	Doctor of Philosophy	Genetics	BIOL238

Chemistry

Name of Faculty	Degree Finished	Field of Specialization	Courses to Handle
Vega, Shalom Grace S.	Doctor of Philosophy	Science Education- Chemistry	EDUC300; CHEM211
Yunzal, Ananias N. Jr.	Master in Education	Chemistry	EDUC300; CHEM206
Quevedo, Elizabeth S.	Ph.D. in Agricultural Chemistry	Organic Chemistry	CHEM209, CHEM208
Tripole, Mark Ryan R.	Master of Science in Chemistry	Inorganic Chemistry	CHEM206; CHEM208

Salas, Felix M.	Ph.D. in Bioregulation Studies	Environmental Chemistry	CHEM207,CHEM208
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Physical Education

Name of Faculty	Degree Finished	Field of Specialization	Courses to Handle
Mazo, Andrew A.	Doctor of Philosophy	Physical Education	PHED209, EDUC300
Rivera-Limbo, Charis B.	Doctor of Education	Physical Education	PHED211, EDUC300
Sapan, Mary Jean	Master of Arts in Education	Physical Education	PHED208
Tabudlong, Sheena Eunice	Master of Arts in Education	Physical Education	PHED208
Villocino, Aleli A.	Doctor of Education	Physical Education	PHED206, EDUC300
Gatchalian, Florife	Doctor of Philosophy (Canddidate)	Physical Education and Sports	PHED206
Gula, Louie P.	Doctor of Education	Educational Management	PHED207, EDUC300
Catacutan, Irish N.	Master in Education	Physical Education	PHED212
Sumayang, Kevin R.	Master in Education	Physical Education	PHED211

Mathematics

Name of Faculty	Degree Finished	Field of Specialization	Courses to Handle
Abas, Crisanto L.	Master in Education	Mathematics	MATH202
Abunda, Nancy D.	Doctor of Philosophy	Science Education-Mathematics	MATH205, EDUC300
Aure, Ma. Rachel Kim L.	Doctor of Philosophy	Research and Evaluation, Mathematics Education	MATH204, EDUC300
Lina, Eusebio L. Jr.	Doctor of Philosophy	Mathematics	MATH203
Mamolo, Leo M.	Doctor of Philosophy	Science Education-Mathematics	MATH200, EDUC300
Ycong, Helmar M.	Master in Education	Mathematics	MATH201

Library Holdings

Subject: EDUC 201 – Foundations of Education

Author	Title	Publisher	Copyright Year	Call No.	Copies No. of
Ramirez, Oscar Alberto	The role of indigenous education	Society Publishing	2023	eBook IG Library	1
Clay, Matthew A.	The worlds educators create: the role of education in the creation of place	Rowman & Littlefield Publishers	2023	eBook IG Library	1
Ramirez, Oscar Alberto	Various types of assessment in education	Society Publishing	2023	eBook IG Library	1
B. Ramirez, Lester	Alternative education in unconventional environments	Society Publishing	2023	eBook IG Library	1
Wagan, Emelyn Cerenio	The role of secondary education in sustainable development	Society Publishing	2023	eBook IG Library	1
Ainscow, Mel, Chapman, Christopher, Hadfield, Mark	Changing education systems: a research-based approach	Routledge	2020	LB1028.35 A36 2020	1
Bullard, Julie.	Creating curriculum in early childhood: enhanced learning through backward design	Routledge / Taylor & Francis Group,	2020	LB1139.4 B85 2020	1
Bergin, Christi Ann C	Child and adolescent development in your classroom: chronological approach	Cengage	2019	LB1115 B47 2019	1
Nilson, Linda B	Online teaching at its best	JosseyBass, , a Wiley brand	2018	LB1044.87 N55 2018	1
Albion, Peter	Technologies education for the primary years	Cengage Learning Australia	2018	LB1523 A43 2018	1
Ashton, Sylvia	An A-Z creative teaching in higher education	SAGE Publications	2018	LB2333 A84 2018	1
Saphier, Jon	High expectations in teaching: how we persuade students to believe and act on smart is something you can get	Corwin, a SAGE Publishing Company	2017	LC4661 S167 2017	1
Caruso, Marcelo, editor.	Classroom struggle: organizing elementary school teaching in the 19th century	Peter Lang	2015	LB1555 C585 2015	1

Moore, Kenneth D.	Effective instructional strategies: from theory to practice. 4th ed.	Sage Publications	2015	LB1025.3 M662 2015	1
Gordon, AM & Browne, KW	Beginnings and beyond : foundations in early childhood education	Wadsworth, Cengage Learning	2014	LB1139.23 G67 2014	1
Ornstein, AC and four others	Foundations of education	Wadsworth Cengage Learning	2014	LB17 078 2014	1
Ornstein and three others	Foundations of education	Wadsworth Cengage Learning	2011	LB17 076 2011	1
Ornstein, Allan C. & Levine, Daniel U.	Foundations of education	Houghton Mifflin Co.	2006	LB17 076 2006	2
Recto, Angel S.	Foundations of education II : historical, philosophical, legal, theological	Rex Book Store	2005	Fil.LB1025.2 R43 2005 V.II	1
Vega, Violeta A.	Historical, philosophical, and legal foundations of education	Grandwater Publications	2005	Fil.LB1025.2 V43 2005	1
Zulueta, Francisco M. & Maglaya, Elda M.	Foundations of education	National Bookstore	2004	Fil.LB1025.2 Z84 2004	1
Ozman, Howard & Craver, Samuel M.	Philosophical foundations of education	Merrill	2003	LB14.7 095 2003	1
Hamrick, Florence A. [and two others]	Foundations of student affairs practice: how philosophy, theory, and research strengthen educational outcomes	JosseyBass	2002	LB2342.9 H35	1
Gutek, Gerald Lee.	Historical and philosophical foundations of education: a biographical introduction	Merrill	2001	LA2301 G87 2001	1
Tulio, Doris D.	Foundations of education: psychological, sociological and anthropological	National Bookstore	2000	Fil.LB1025.2 F8 bk.I 2000	1
Calderon, Jose F.	Foundations of education	Rex Book Store	1998	Fil.LB1025.2 C34 1998	3
Travers, Paul D. & Rebore, Ronald W.	Foundations of education: becoming a teacher	Allyn and Bacon	1995	LB1715 T675 1995a	1
Stevens, Edward, & Wood, George H.	Justice, ideology, and education: an introduction to the social foundations of education	McGraw-Hill	1992	LC191.4 J87	1

Lardizbal, Amparo S.	Foundations of education : psychological, sociological and anthropological	Rex Book Store	1988	Fil.LB1025.2 L325 1988	2
Manuel G. Lacuesta [and three others]	Historical, philosophical, and legal foundations of education:	Katha Publishing	1986	Fil.LB1025.2 F68 1986 v.2	3
Bustos, Alicia S. [and Espiritu, Socorro C.]	Psychological, anthropological, and sociological foundations of education	Katha Publishing	1985	Fil.LB1025.2 F68 1985	3
Van Scotter, Richard D.	Social foundations of education	PrenticeHall	1985	LC189 S668 1985	1
Darkenwald, Gordon G. & Merriam, Sharan B.	Adult education: foundations of practice	Harper & Row	1982	LC5215 D37	1

Subject: EDUC203 – Research in Education

Author	Title	Publisher	Copyright Year	Call No.	Copies No. of
Kishore, Awadhesh	Glossary of research methodology	NIPA GENX Electronic Resources & Solutions Pvt Ltd	2023	eBook IG Library	1
Richards, Sarah; Coombs, Sarah	Critical perspectives on research with children: reflexivity, methodology, and researcher identity	Bristol University Press	2023	eBook IG Library	1
Dua, Amit; Das, Sankha; Sinha, Pulkit	Machine learning for education: revolutionizing the way we learn and teach	BPB Publications	2023	eBook IG Library	1
Ainscow, Mel, Chapman, Christopher, Hadfield, Mark	Changing education systems: a researchbased approach	Routledge	2020	LB1028.35 A36 2020	1
Bullard, Julie	Creating curriculum in early childhood: enhanced learning through backward design	Routledge / Taylor & Francis Group	2020	LB1139.4 B85 2020	1
3G E-learning	Research in education	3G Elearning	2018	LB1028 R37 2018	1
Nilson, Linda B	Online teaching at its best: merging instructional design	JosseyBass, a Wiley brand	2018	LB1044.87 N55 2018	1

	with teaching and learning research				
Wilson, Elaine, Editor	School-based research: a guide for education student	SAGE Publications Ltd.	2017	LB1028 S27 2017	1
Glenn, Máirín [and three others]	Learning communities in educational partnerships: action research as transformation	Bloomsbury Academic	2017	LB1731 G55 2017	1
Bernardo, Allan B. I. & Gaerlan, Marianne Jennifer M.	Educational reform and innovation in the AsiaPacific: advances in research	De La Salle University Publishing House	2013	Fil.LA1052.7 E38 2013	1
Muijs, Daniel	Doing quantitative research in education with SPSS. 2nd ed.	Sage Publications	2011	LB1028 M85 2011	1
Robson, Colin	Real world research: a resource for users of social research methods in applied settings.	WileyBlackwell	2011	H62 R63 2011	1
Webb, Rosemary	Researching primary education: methods and issues	Routledge	2010	LB1511 R47	1
Creswell, John W.	Educational research: planning, conducting, and evaluating quantitative and qualitative research	Pearson Education	2008	LB1028 C74 2008	1
Fraenkel, Jack R. & Wallen, Norman E.	How to design and evaluate research in education	McGraw-Hill Higher Education	2008	LB1028 F66 2008	1
Thomas, Gary	Education and theory: strangers in paradigms	Open University Press	2007	LB1025.2 T56	1
Fraenkel, Jack R. & Wallen, Norman E.	How to design and evaluate research in education	McGraw-Hill	2006	LB1028 F66 2006	1
Wiersma, William & Jurs, Stephen G	Research methods in education: an introduction	Pearson/A and B	2005	LB1028 W53 2005	1
McCulloch, Gary.	Documentary research in education, history, and the social sciences	Routledge Falmer	2004	H62 M32 2004	1
Freebody, Peter.	Qualitative research in education: interaction and practice	SAGE Publications	2003	LB1028 F74	1
Hamrick, Florence A. [and two others]	Foundations of student affairs practice: how philosophy, theory, and research	JosseyBass	2002	LB2342.9 H35	1

	strengthen educational outcomes				
Creswell, John W.	Educational research: planning, conducting, and evaluating quantitative and qualitative research	Merrill	2002	LB1028 C73 2002	1
Charles, C. M., & Mertler, Craig A.	Introduction to educational research	Allyn and Bacon	2002	LB1028 C52	1
McMillan, James H. & Schumacher, Sally.	Research in education: a conceptual introduction	Longman	2001	LB1028 M32 2001	1
Gay, L. R. & Airasian, Peter W.	Educational research: competencies for analysis and application	Merrill	2000	LB1028 G39 2000	1
Padua, Roberto N.	Fundamentals of educational research and data analysis	Katha Publishing	1998	Fil.LB 1028 P32 1998	1
Gonzalez, Virginia [and three others]	Assessment and instruction of culturally and linguistically diverse students with or at-risk of learning problems: from research to practice	Allyn & Bacon	1997	LC3731 G67 1997	1
Hoy, Wayne K. & Miskel, Cecil G.	Educational administration: theory, research, and practice	McGraw-Hill	1996	LB2805 H69 1996a	1
Wiersma, William.	Research methods in education: an introduction	Allyn and Bacon	1995	LB1028 W517 1995a	1
Langenbach, Michael [and two others]	An introduction to educational research	Allyn and Bacon	1994	LB1028 L27	1
Eisenhart, Margaret A. & Borko, Hilda	Designing classroom research: themes, issues, and struggles	Allyn and Bacon	1993	LB1028.24 E37a 1993	1
Fraenkel, Jack R. & Wallen, Norman E.	How to design and evaluate research in education	McGraw-Hill	1993	LB1028 F73 1993	1

**Subject: EDUC 204 – Social Science
Statistics**

Author	Title	Publisher	Copyright Year	Call No.	Copies No. of
Moreira, Olga	Advanced techniques for collecting statistical data	Arcler Press	2023	eBook IG Library	1
Warne, Russell T.	Statistics for the social sciences: a general linear model approach	Cambridge University Press	2021	QA276 W37 2021	1
Abu-Bader, Soleman H.	Using statistical methods in social science research: with a complete SPSS guide	Oxford University Press	2021	HV29 A28 2021	1
Creswell, J. David	Research design: qualitative, quantitative, and mixed methods approaches	SAGE	2018	H62 C74 2018	1
McCormick, Keith [and two others]	SPSS statistics for dummies	John Wiley & Sons, Inc.	2015	HA32 M37 2015	1
Kraskamiller, M.	Nonparametric statistics for social and behavioral sciences	CRC Press	2014	HA29 K798 2014	1
Creswell, John W.	Research design: qualitative, quantitative, and mixed methods approaches	SAGE	2014	H62 C74 2014	2
Vogt, W. Paul & Johnson, Burke.	Dictionary of statistics & methodology: a nontechnical guide for the social sciences	SAGE	2011	GR.HA17 V64 2011	1
Norušis, M. J.	PASW Statistics 18 advanced statistical procedures companion	Prentice Hall	2010	HA32 N67a	1
Garcia, Alipio M. [and two others]	Research for all disciplines: with computer-aided statistics (statistical package for social science)	Mutya Publishing House, Inc.	2007	Fil 001.4 G165 2007	1
Kendrick, J. Richard, Jr.	Social statistics: an introduction using SPSS for Windows	Pearson/Allyn and Bacon	2005	HA32 K46 2005	1
Healey, Joseph F.	Statistics: a tool for social research	Thomson/Wadsworth	2005	HA29 H42 2005	1
Subong, Pablo E. & Beldia, McDonald D.	Statistics for research: applications in research, thesis and dissertation writing, and statistical data management using SPSS software	Rex Book Store	2005	Fil.QA276 S93 2005	1
Sprinthall, Richard C.	Basic statistical analysis	Allyn and Bacon	2003	HA29 S67 2003	1

Andersen, Erling B. [and two others]	Statistics for economics, business administration, and the social sciences	Springer-Verlag	1987	HA29 A5 1987	1
Hickey, Anthony A.	An introduction to statistical techniques for social research	Random House	1986	HA29 H53	1
Leach, Chris.	Introduction to statistics: a nonparametric approach for the social sciences	Wiley	1979	HA29 L435	1

MATHEMATICS (Choice of 15 units)

Subject: Math 200 – Set and Number Theory

Author	Title	Publisher	Copyright Year	Call No.	Copies No. of
Zudilin, Wadim; Berndt, Bruce C.; Zudilin, Wadim	Analytic methods in number theory: when complex numbers count	World Scientific	2023	eBook IG Library	1
Debnath, Pradip; Srivastava, Hari Mohan; Chakraborty, Kalyan; Kumam, Poom	Advances in number theory and applied analysis	World Scientific	2023	eBook IG Library	1
Sundstrom, Ted.	Mathematical reasoning writing and proof: writing and proof	Prentice-Hall, Inc.	2022	QA9.54 S86 2022	1
Gallian, Joseph A.	Contemporary abstract algebra	CRC Press/Taylor & Francis Group	2021	QA162 G35 2021	1
3G E-learning LLC	Elementary number theory	3G E-learning LLC	2020	QA248.3 E44 2020	1
Albright, Brian & Fox, William P.	Mathematical modeling with excel	CRC Press/Taylor & Francis Group	2020	QA300 A43 2020	1

Ram, Mangey, Editor	Mathematics in engineering sciences: novel theories, technologies, and applications	Taylor & Francis	2020	TA330 M327 2020	1
Ram, Mangey	Mathematics in engineering sciences: novel theories, technologies, and applications	Taylor & Francis	2020	TA330 M327 2020	1
Borres, Maria Catherine C., Editor	Essentials of number theory	Arcler Press LLC	2017	QA241 E87 2017	1
Muir, Jerry R.	Complex analysis: a modern first course in function theory	Wiley	2015	QA331 M85 2015	1
Mcnew, J.G.	Fundamentals of set theory.	Delve Publishing	2015	QA248 F86 2015	1
Conradie, Willem & Goranko, Valentin	Logic and discrete mathematics: a concise introduction	John Wiley & Sons Inc.	2015	QA9 C66 2015	1
Erickson, Martin J. & Vazzana, Anthony	Introduction to number theory	Chapman & Hall/CRC	2008	QA241 E75 2008	1
Miller, Steven J. & TaklooBighash, Ramin	An invitation to modern number theory	Princeton University Press	2006	QA241 M53 2006	1
Lipschutz, Seymour & Lipson, Marc Lars	Discrete mathematics: based on Schaum's outline of theory and problems of discrete mathematics	McGraw-Hill	2003	QA76.9 M35 S32 2003	1

Lipschutz, Seymour	Schaum's outline of theory and problems of set theory and related topics	McGraw-Hill	1998	QA248 L56 1998	1
Lipschutz, Seymour	Schaum's outline of theory and problems of set theory and related topics	McGraw-Hill	1981	QA248 L58 1981	1
Halberstam, H. & Hooley, C.	Recent progress in analytic number theory	Academic Press	1981	QA241 R42 1981 v.2	1
Niven, Ivan Morton & Zuckerman, Herbert S.	An introduction to the theory of numbers	Wiley	1980	QA241 N56 1980	1
Hardy, G. H. (Godfrey Harold) & Wright, E. M. (Edward Maitland)	An introduction to the theory of numbers	Oxford University Press	1979	QA241 H28 1979a	1
Lipschutz, Seymour	Schaum's outline of theory and problems of set theory and related topics	McGraw-Hill	1964	QA248 L56 1964	1

Subject: Math 201 – Strategies in Teaching Math

Author	Title	Publisher	Copyright Year	Call No.	Copies No. of
Moreira, Olga	Use of abstraction and logic in mathematics	Arcler Press	2023	eBookIG Library	1
Moreira, Olga	The notion of mathematical proof : key rules and	Arcler Press	2023	eBookIG Library	1

	considerations				
Moreira, Olga	The use of mathematical structures : modelling real phenomena	Arcler Press	2023	eBookIG Library	1
Mantič, Vladislav	Mathematical methods and models in composites, second edition	World Scientific Publishing Europe	2023	eBook IG Library	1
3G Elearning	Introduction to mathematical modeling.	3G E-learning	2018	QA401 I58 2018	1
Wolfmeyer, Mark.	Mathematics education: a critical introduction	Routledge	2017	QA13 W65 2017	1
Larson, Ron & Silbey, Robyn	Mathematical practices: mathematics for teachers: activities, models, and real-life examples	Cengage Learning	2015	QA39.3 L37 2015	1
Stordy, Mary M.	Children count: exploring what is possible in a classroom with mathematics and children	Peter Lang	2015	QA135.6 S76 2015	1
Stepanek, Jennifer	Teaching by design in elementary mathematics	Corwin	2011	QA135.6 T43 2011	1
Musser, Gary L. [and two others]	Mathematics for elementary teachers: a	Wiley	2011	QA99.3 M87 2011	1

	contemporary approach				
Freitag, Mark A.	Mathematics for elementary school teachers: a process approach	Brooks/Cole/Cengage Learning	2014	QA135.6 F74 2014	1
Tucker, Kate	Mathematics through play in the early years	Paul Chapman Pub	2010	QA20 G35 T83 2010	1
Rose, Cheryl M. [and two others]	Uncovering student thinking in mathematics: 25 formative assessment probes	Corwin Press	2007	QA11.2 R67 2007	1
Ediger, Marlow	Teaching mathematics successfully	Discovery Publishing House	2000	QA11 E34 2000	1
Salandanan, Gloria G. [and two others]	The teaching of science and health, mathematics, and home economics, and practical arts: (Teaching Strategies III)	Katha Publishing Co., Inc.	1996	Fil.LB10 25.2 S24 1996	2
Clewell, Beatriz C. [and two others]	Breaking the barriers: helping female and minority students succeed in mathematics and science	Jossey-Bass	1992	QA13 C54 1992	1
Reys, Robert E. [and two others]	Helping children learn	Prentice Hall	1989	QA135.5 R49 1989	1

	mathematics				
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Subject: Math 202 – Mathematics Analysis

Author	Title	Publisher	Copyright Year	Call No.	Copies No. of
3G E-learning LLC	Complex analysis	3G E-learning LLC	2020	QA331.7 C66 2020	1
Landau, Rubin & Paez, Manuel Jose	Computational problems for physics: with guided solutions using python	CRC Press/Taylor & Francis Group	2020	QC20.82 L36 2020	1
Marshall, Donald E.	Complex analysis	Cambridge University Press	2019	QA331.7 M37 2019	1
3G E-learning LLC.	Core concepts in mathematics: numerical analysis	3G E-learning LLC	2019	QA297 C67 2019	1
Stewart, Ian & Tall, David	Complex analysis	Cambridge University Press	2018	QA331.7 S74 2018	1
Dorfman, Kevin D. & Daoutidis, Prodromos	Numerical methods with chemical engineering applications	Cambridge University Press	2017	TP155.2 M36 D66 2017	1
Mergane, Pape Djiby [twenty-nine others]	Advances in measure theory & real analysis	Magnum Publishing LLC	2016	QA331.5 M43 2016	1
Anagnostopoulos, Konstantinos N.	Computational physics: a practical introduction to computational physics and scientific computing (using C++)	Konstantinos N. Anagnostopoulos and the National Technical University of Athens	2016	QC20.82 A53 2016	1

Muir, Jerry R.	Complex analysis: a modern first course in function theory	Wiley	2015	QA331 M85 2015	1
Little, Charles H.C. [and two others]	Real analysis via sequences and series	Springer	2015	QA279.7 L58 2015	1
Kumar, Ajit & Kumaresan, S.	A basic course in real analysis	Taylor & Francis	2014	QA331.5 K86 2014	1
Chatterjee, Samprit & Simonoff, Jeffrey S.	Handbook of regression analysis	Wiley	2013	QA278.2 C498 2013	1
Chatterjee, Samprit & Hadi, Ali S.	Regression analysis by example		2012	QA278.2 C53 2012	1

Subject: Math 203 – Linear Algebra

Author	Title	Publisher	Copyright Year	Call No.	Copies No. of
Simovici, Dan A.	Linear algebra tools for data mining, second edition	World Scientific	2023	eBook IG Library	1
Anton, Howard [and two others]	Elementary linear algebra	John Wiley & Sons, Inc.	2019	QA184 A57 2019	1
Lipschutz, Seymour & Lipson, Marc Lars	Linear algebra	McGrawHill Education	2018	QA184 L57 2018	1
Larson, Ron	Elementary linear algebra	Cengage Learning	2017	QA184 L37 2017	1
Sato, Matsuo	Matrix and linear algebra	Magnum Publishing	2016	QA184 M38 2016	1
Gabuyo, Yonardo A.	College algebra with applications	Rex book Store	2011	Fil.C QA154.2 G33 2011	1
Anton, Howard	Elementary linear algebra:	John Wiley & Sons (Asia) Pte Ltd.	2011	QA184.2 H69 2011	1

	with supplement al applications : International student version				
Williams, Gareth	Linear algebra with applications	Jones and Bartlett Publishers	2011	QA184 W55 2011	1

**Subject: Math 204 – Abstract
Algebra**

Author	Title	Publisher	Copyri ght Year	Call No.	No. of Copi es
Gallian, Joseph A.	Contempora ry abstract algebra	CRC Press/Taylor & Francis Group	2021	QA162 G35 2021	1
3G E-learning LLC	Abstract algebra	3G Elearning LLC	2020	QA162 A27 2020	1
Sawyer, W.W.	A concrete approach to abstract algebra	Dover Publications, Inc.	2019	QA162 S28 2019	2
Gallian, Joseph A.	Contempora ry abstract algebra	Cengage Learning	2017	QA162 G35 2017	1
Pinter, Charles C.	A book of abstract algebra	Dover Publications	2010	QA162 P56 2010	1
Lipschutz, Seymour	Discrete mathematic s: based on Schaum's outline of theory and problems of discrete mathematic s	McGraw-Hill	2003	QA76.9 M35 S32 2003	1
Durbin, John R.	Modern algebra: an introduction	Wiley	2000	QA162 D87 2000	1
Walker, E. (Elbert)	Introduction to abstract algebra	Random House	1987	QA162 W35 1987	1

Durbin, John R.	Modern algebra: an introduction	Wiley	1985	QA162 D87 1985	1
Fraleigh, John B.	A first course in abstract algebra	AddisonWesley Pub. Co.	1982	QA162 F7 1982	1

Subject: Math 205 – Modern Geometry

Author	Title	Publisher	Copyright Year	Call No.	Copies No. of
Siqveland, Arvid	Associative algebraic geometry	World Scientific Publishing Europe	2023	eBook IG Library	1
Pardalos, Panos M.; Rassias, Themistocles M.	Analysis, geometry, nonlinear optimization and applications	World Scientific	2023	eBook IG Library	1
Whittlesey, Marshall A.	Spherical geometry and its applications	CRC Press/Taylor & Francis Group	2020	QA457 W45 2020	1
Wilson, April.	Textbook of geometry	NY Research Press	2020	QA445 W38 2020	1
3G E-learning	Theory, practice, and techniques in geometry.	3G Elearning	2018	QA445 T54 2018	2
Galliguez, Thelma C. [and three others]	Analytic geometry	C & E Publishing	2015	Fil.QA55 1 A53 2015 c.1-4	4
Alexander, Daniel C. & Koeberlein, GERALYN M.	Elementary geometry for college students	Cengage Learning	2015	QA453 A54 2015	1
Cuaresma, Ma. Cristeta N. [and three others]	A worktext in analytic geometry and calculus 1	C & E Publishing	2013	Fil.QA55 1 W67 2013 c.1- 5	5
dela Cruz, Perla S.	Analytic geometry	C & E Publishing	2013	Fil.QA55 1 D34 2013 c.1-5	5

Alexander, Daniel C. & Koeberlein, GERALYN M.	Elementary geometry for college students	Cengage Learning	2011	QA453 A44 2011	1
Wheater, Carolyn C.	Geometry	McGraw-Hill	2010	QA445 W44 2010	1
Rich, Barnett	Schaum's outline of theory and problems of geometry: includes plane, analytic, and transformational geometries	McGraw-Hill	2000	QA445 R52 2000	1
Larson, Roland E.	Course two: integrating geometry, data analysis, functions, algebra	D.C. Heath and Company	1995	QA445 L37 1995	1

MAJOR FIELDS

ENGLISH

Subject: ENGL229 - Western Literary Works

Author	Title	Publisher	Copyright Year	Call No.	No. of Copies
Wood, Paul	Western art and the wider world	Wiley-Blackwell	2014	N5300 W66 2014	1
Agcaoli, RM	World literature	Jamesville Publications	2013	Fil.PN6014 A33 2013	1
Spiegel, JJ	Western civilization	Wadsworth, Cengage Learning	2012	CB245 S65 2012	1
Rapaport, H	The literary theory toolkit: a compendium of concepts and methods	Wiley-Blackwell	2011	PN441 R37 2011	1
Stanford, Judith A.	Responding to literature: stories, poems, essays	McGraw-Hill Higher Education	2006	PE1417 R47 2006	1
Wilson, CE, Jr.	Race and racism in literature	Greenwood Press	2005	PS169 R28 W55 2005	1
--	African American literature	Glencoe/McGraw-Hill	2001	PS508 N3 G53 2001	1

Subject: ENGL232 - Studies in Phil. Literature

Author	Title	Publisher	Copyright Year	Call No.	No. of Copies
--	Librong itim: an anthology of short Philippine horror stories	Precious Pages Corporation	2018	F.L53	1
Vergara, J	A secret love	Lifebooks	2018	F.V47s	1
King, Luna	What charmed Marga	Precious	2018	F.K46	1

		Pages Corporation			
<u>Pagliawan, Doms</u>	A time to show : timeless features and creative nonfiction	Texts and Visuals	2017	Fil.DS669 P34 2017	2
<u>Alunan, Merdie M.</u>	<u>Susumaton</u> : oral narratives of Leyte	<u>Ateneo de Manila University Press</u>	2016	Fil.GR326 W3 2016	1
<u>Almano, Ani Rosa</u> [and two others], editors	<u>Bumasa at lumaya 2</u> : a sourcebook on children's literature in the Philippines	Anvil Publishing	2015	Fil.P25 B86 2015	1
<u>Amor, V</u>	Diary <u>ng maganda</u>	Precious Pages Corporation	2015	F.A46d	1
<u>Fernandez, Y</u>	<u>Haluhalo espesyal</u>	<u>Adams House, Inc</u>	2015	Fil.PN3448 C4 F47 2015	1
<u>Alunan, Merdie M.</u>	<u>Sa atong dila</u> : introduction to Visayan literature	University of the Philippines Press	2015	Fil.PL5931.5 S23 2015	2
<u>Pagliawan, D</u>	<u>Tabsik hin kagamhanan : Winaray nga nobela</u>	Text and Visuals	2015	Fil.PN6377 P49 P34 2015	1
<u>Chua, Jonathan</u> [and two others], editors	A reader on Philippine film: history and criticism	University of the Philippines Press	2014	Fil.PN1993.5 P5 R43 2014	1
<u>Eugenio, Damiana</u>	Philippine folk literature : an anthology	University of the Philippines Press	2007	Fil.GR325 P45 v.1	1
<u>Lacia, Ferdilyn</u> [and three others]	The Literatures of the Philippines	Rex Book Store	2003	Fil.PL6141 L57 2003	1
<u>Yap-Patron, Ida</u>	Interactive reading: responding to and writing about Philippine literature	Great Books Trading	2002	Fil.PL6141 P37 2002	1
<u>Chan, Edita I.</u> [and seven others]	Philippine literature: literature from the regions	<u>Mutya Publishing House</u>	2002	Fil.PL6141 P544 2002	1
<u>Garcellano, E</u>	Knife's edge: selected essays	University of the Philippines Press	2001	Fil.PR9550.5 G37 2001	1
<u>Reyes, Soledad</u> , ed.	<u>Lina Flor</u> : collected works		2000	Fil.PL6141 L56 2000	1
<u>Ordoñez, Elmer</u>	Emergent literature: essays on Philippine writing	University of the Philippines Press	2000	Fil.PN71 P5 O72	1

Subject: LTNG207 – Introductory Linguistics



Author	Title	Publisher	Copyright Year	Call No.	No. of Copies
Johnson, Lisa	Cultivating communication in the classroom : future-ready skills for secondary students	Corwin, a SAGE Publishing Company	2017	P96 .M4 L57 2017	1
Sakel , Jeanette	Study skills for linguistics	Routledge , Taylor & Francis Group	2015	P126 S25 2015	1
Barkley, Lawrence	Grammar and usage, neutrality	Cengage Learning	2015	PE1112 B37 2015	1
Langan , John	English skills with readings	McGraw-Hill Education	2015	PE1408 L36 2015	1
Beinhoff , Bettina	Perceiving identity through accent:: attitudes towards non-native speakers and their accents in English	Peter Lang	2013	P1139 B45 2013	1
Finegan , Edward	Language : its structure and use	Cengage Learning	2013	P107 F57 2013	1
Wood, Julia T.	Communication in our lives. 6 th ed.	Cengage	2012	P90 W66 2012	1
DeVito, Joseph A.	Interpersonal messages: communication and relationship skills	Pearson Allyn & Bacon	2011	BF637 C45 D48 2011	1
Liu, Shuang	Introducing intercultural communication global cultures and contexts	SAGE	2011	P94.6 L58	1
Palmer, Sue	Speaking frames: how to talk for writing, ages 8-10	Routledge	2011	P95.3 P35 2011	1
Parker, Frank	Linguistics for non-linguistics: a primer with exercises	Allyn & Bacon	2010	P121 P37 2010	1
Franklin, V	Introduction to linguistics		2010		1

Subject: LTNG211 - Teaching Literature

Author	Title	Publisher	Copyright Year	Call No.	No. of Copies
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	Bumasa at Lumaya 2 : a sourcebook on children's	Anvil Publishing	2015	Fil.P25 B86 2015	1

Alunan, Merle M.	Literature in the Philippines: Sa atong dila: introduction to Visayan literature	University of the Philippines Press	2015	FI PL5931.5 S23 2015	2
—	A reader on Philippine film: history and criticism	University of the Philippines Press	2014	FI PN19935 P5 R43 2014	1
—	The monkey and the turtle	Adarna House	2014	FI PN3448 C4 C78 2014	1
—	Mga lektura sa kasaysayan ng panitikan	Pambansang Komisyon para sa Kultura at mga Sining	2013	FI PL6058.5 L45 2013	1
—	Mga lektura sa panitikang popular	Mga lektura sa panitikang popular	2013	FI PL6051 L45 2013	1
—	Report from the abyss: non-fiction	Visprint	2013	FI PS9993 D46 2013	1
—	Aura: the gay theme in Philippine fiction in English	Anvil Pub	2012	FI PL6141 A97 2012	1
—	Yudi man: mga osdon para ki Nunuy asin ki Nini	National Commission for Culture and the Arts	2009	FI PL6179 Y85 2008	1

Subject: LTNG212: Techniques in Advanced Composition

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Ferre, CW & Pfeifer, HL	Write & wrong: writing within criminal justice: student workbook	Jones & Bartlett Learning	2018	HV6024 F47 2018	1
Malloy, KE	The art of theatrical design: elements of visual compositions, methods, and practice	Focal Press	2015	PN2091 S8 M35 2015	1
Sakel, J	Study skills for linguistics	Routledge Taylor & Francis Group	2015	P126 S25 2015	1
Barkley, L & Sandoval, C	Grammar and usage, naturally	Cengage Learning	2015	PE1112 B37 2015	1
Greek, Joe	Writing term papers with cool new digital tools	Rosen Central	2014	LB1047 G74 2014	1

Subject: LTNG216 - Teaching Speech Communication



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<u>Cooren, F</u>	Organizational discourse : communication and constitution	Polity Press	2015	HD30.3 C66 2015	1
<u>Masong, Amulfo</u>	Speak with style: a speech and oral communication <u>worktext</u>	<u>Jimcyville</u> Publications	2015	Fil.PN4121 M37 2015	1
--	The thirty best speeches of His Excellency <u>Benigno S. Aquino III</u> , President of the Philippines v1-v2	Presidential Communications Development and Strategic Planning Office	2015	Fil.DS686.616 A63.A5.2015	2
<u>Reinhoff, Bettina</u>	Perceiving identity through accent : attitudes towards non-native speakers and their accents in English	Peter Lang	2013	P1139 B45 2013	1
Wood, Julia	Interpersonal communication: everyday encounters	Wadsworth	2013	BF637 C45 W66 2013	1
--	Intercultural communication : a reader	Wadsworth <u>Cengage</u> Learning	2012	HM1211 S26 2012	1
Gregory, Hamilton	Public speaking for college & career. 9 th ed.	McGraw-Hill Higher Education	2011	PN4121 G74 2011	1
--	Climate change message of our times : Excerpts from Senator Loren <u>Legarda's</u> speeches	<u>Libro ni</u> Loren Foundation, <u>Inc</u>	2011	Fil.QC980.15 C55 2011	1
Grant, Linda	Well said: pronunciation for clear communication. 3 rd ed.	<u>Heinle/ Cengage</u> Learning	2010	PE1137 W63 2010	1
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PHYSICAL EDUCATION

Subject: PHED206 –Admin. of Physical Education

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Howells, Kristy	Mastering primary physical education	Bloomsbury Academic	2017	GV443 H69 2017	1

Prentice, William E.	Principles of athletic training: a guide to evidence-based clinical practice	McGraw-Hill Education	2017	RC1210 P73 2017	1
Lavay, BW	Positive behavior management in physical activity settings	Human Kinetics	2016	GV363 L36 2016	1
NSCA	Essentials of strength training and conditioning	Human Kinetics	2016	GV711.5 E88 2016	1
Morrow, James R.	Measurement and evaluation in human performance	Human Kinetics	2016	QP301 M375 2016	1
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Manto, Asuncion	MAPEH	MET Review Publishing House	2015	FI161761 M36 2015	1
Pedersen, Paul M.	Contemporary sports management	Human Kinetics	2011	GV713 C68 2011	1
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Domingo, JPR [and three others]	H.O.P.E.2: introduction to sports: individual, dual and team	Mutya Publishing House	2017	FI16V663 P5 D66 2017	1
Howells, K [and three others]	Mastering primary physical education	Bloomsbury Academic	2017	GV443 H69 2017	1
Prentice, WE	Principles of athletic training: a guide to evidence-based clinical practice	McGraw-Hill Education	2017	RC1210 P73 2017	1
–	Essentials of strength training and conditioning		2016		1
Evans, RR & Sims, SK	Health and physical education for elementary classroom teachers: an integrated approach	Human Kinetics	2016	GV711.5 E88 2016	1
Hay, Peter	Assessment in physical education: a sociocultural perspective	Routledge	2013	GV382 H39 2013	1

Fitzpatrick, Katie	Critical pedagogy, physical education and urban schooling	Peter Lang	2013	GV204 N452 A834 F58 2013	1
Katz, Mira-Lisa, editor	Moving ideas: multimodality and embodied learning in communities and schools	Peter Lang	2013	GV452 M68 2013	1
Pedersen, Paul M. editor	Routledge handbook of sport communication	Routledge	2013	GV567.5 R68-2013	1
Winnick, Joseph P., editor	Adapted physical education and sport	Human Kinetics	2011	GV445 A3 2011	1
Fahey, Thomas	Fit & well: core concepts and labs in physical fitness and wellness	McGraw-Hill	2011	GV481 F34 2011	1
Hoeger, Werner WK.	Lifetime physical fitness and wellness: a personalized program	Wadsworth, Cengage Learning	2011	RA781 H64 2011	1
—	Nutrition and fitness	Marshall Cavendish Reference	2011	RA776.5 N88 2011	1
Hoeger, W	Lifetime physical fitness and wellness: a personalized program	Wadsworth, Cengage Learning	2011	RA781 H64 2011	1
Brown, David R. [and two others], editors	Promoting physical activity	Human Kinetics	2010	RA427.8 P76 2010	1

Subject: PHED208 –Curriculum Development in Physical Education

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Prentice, WE	Principles of athletic training: a guide to evidence-based clinical practice	McGraw-Hill Education	2017	RC1210 P73 2017	1
Mitchell, Stephen A	The essentials of teaching physical education: curriculum, instruction, and assessment	Human Kinetics	2016	GV365 M57 2016	1
Holt	Lesson planning for elementary physical education: meeting the national standards & grade level outcomes	SHAPE America Society of Health and Physical Educators, Human Kinetics	2016	GV362 H65 2016	1

Evans, Reta R.	Health and physical education for elementary classroom teachers: an integrated approach	Human Kinetics	2016	LB1588 U6 E83 2016	1
—	Encyclopedia of sport and exercise psychology v.1	Sage Publications	2014	GR GV706.4 E53 2014 v.1	1
—	Encyclopedia of sport and exercise psychology v.2	Sage Publications	2014	GR GV706.4 E53 2014 v.2	1
Karageorghis, C.	Inside sports psychology	Human Kinetics	2011	GV706.4 K373 2011	1
Rink, Judith	School wide physical activity: a comprehensive guide to designing and conducting programs	Human Kinetics	2010	GV363 R56	1
Reigeluth, CM and Chellman, Allison Carr	Instructional design theories and models	Routledge	2009	LB1025.2 I57	1
Oliva, Peter	Developing the curriculum	Allyn and Bacon	2005	LB2806.15 O44 2005	1
Marsh, Colin	Key concepts of understanding curriculum	RoutledgeFame	2004	LB1570 M37 2004	1
Bago, A.	Curriculum: the teacher's initiative	Merill/Prentice Hall	2003	LB1570 M32 2003	1
—	Curriculum planning: a contemporary approach	Allyn and Bacon	2000	LB2806.15 C87 2000	1

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Andersen, MB and Hanrahan S., eds	Doing exercise psychology	Human Kinetics	2015	RA781 D567 2015	1
Eklund, Robert C. and Tenenbaum, Gershon, eds	Encyclopedia of sport and exercise psychology, V. 1-2	Sage Publications, Inc	2014	GR GV706.4 E53 2014	2 vols
Karageorghis, Costas	Inside sport psychology	Human Kinetics	2011	GV706.4 K373 2011	1
Abrams, Mitch	Anger management in sport: understanding and controlling violence in athletes	Human Kinetics	2010	RC461.4 A83 A27	1

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Barcelona, Robert J.	Recreational sport : program design, delivery, and management	Human Kinetics	2016	GV181.5 B37 2016	1
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Pedersen, PM	Contemporary sport management	Human Kinetics	2011	GV713 C68 2011	1
Veal, Anthony James	Leisure, sport and tourism, politics, policy and planning	CABI	2010	GV75 V43 2010	1
Blackshaw, T and Crawford, G	The SAGE dictionary of leisure studies	SAGE	2009	GV11 B53 2009	1
–	The management of sport : its foundation and application	McGraw-Hill	2005	GV713 M36 2005	1
Mull, Richard F.	Recreational sport management	Human Kinetics	2005	GV181.4 R43 2005	1

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Taylor, Jim	Dance psychology for artistic and performance excellence	Human Kinetics	2014	GV1588.5 T38 2015	1
Namiki, Kanami	Ramon Obusan, Philippine folkdance, and me: from the perspective of a Japanese dancer	Anvil Publishing	2014	Fil.GV1743 K36 2014 c.2	1
Katz., Mira-Lisa	Moving ideas: multimodality and embodied learning in communities and schools	Peter Lang	2013	GV452 M68 2013	1
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CHEMISTRY

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3G E-learning LLC	Core concepts in chemistry inorganic chemistry	3G E-learning LLC	2019	QD151.2 C67 2019	1
Fahlman, B.D. [and four others]	Chemistry in context: applying chemistry to society	McGraw-Hill	2018	QD416 .C44 2018	1
Dean, John R.	Environmental trace analysis: techniques and applications	Wiley	2014	TD193.D43 2014	1
Calano, RB	College chemistry inorganic and organic for the health professions	Educational Publishing House	2010	FI QD31.2 C35 2010	3
Brown, Theodore	Chemistry: the central science	Pearson Education, Inc.	2009	QD31.3 C54 2009	1

Subject: CHEM207 – Chem. Structure and Reactivity

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3G E-learning LLC	Core concepts in chemistry medicinal chemistry	3G E-learning LLC	2019	RS403.M43 2019	1
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Burdge, J & Overby, J.	Chemistry: an atoms first approach	Brooks/Cole Cengage Learning	2018	QD31.3 B87 2018	1
Masterton, W	Chemistry: principles and reactions	Cengage Learning	2016	QD33.2 M37 2016	1
Haynes, WM	CRC handbook of chemistry and physics: a ready-reference book of chemical and physical data	CRC Press	2015	Ref QD65 C37 2015	1
Kotz, J	Chemistry and chemical reactivity	Brooks/Cole Cengage Learning	2012	QD31.3 K68 2012 c1-2	2
Kotz, J	Chemistry & chemical reactivity	Thomson Brooks/Cole	2009	QD31.3 K68 2010	1
Brown, Theodore	Chemistry: the central science	Pearson Education, Inc.	2009	QD31.3 C54 2009	1

Smith, Janice	General organic and biological chemistry	McGraw-Hill Education	2013	QD31.3 S63 2013	1
Frost, Laura	General, organic, and biological chemistry	Pearson Education	2011	QD251.3 F76 2011	1
Meislich, Herbert	Schaum's outlines: organic chemistry	McGraw-Hill	2010	QD257 M44 2010	1

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Fahlman, BD [and six others]	Chemistry in context: applying chemistry to society	McGraw-Hill	2018	QD415 C44 2018	1
Burdge, J. & Driessen, M	Introductory chemistry: an atoms first approach	McGraw-Hill Education,	2017	QD31.3 B87 2017	1
Engel, T [and two others]	Physical chemistry for the life sciences	Pearson Prentice Hall	2008	QP517 P49 E54 2008	

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Skooog, Douglas [and three others]	Analytical chemistry	Cengage Learning Asia	2016	QD75.22 F865 2016	1
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Bethlehem, F	Introduction to general, organic, and biochemistry	Cengage Learning	2016	QD31.2 I46 2016	1
Masterton, W	Chemistry: principles and reactions	Cengage Learning	2016	QD33.2 M37 2016	1
Haynes, WM	CRC handbook of chemistry and physics: a ready-reference book of chemical and physical data	CRC Press	2015	Ref.QD65 C37 2015	1
Ustunol, Z	Applied food protein chemistry	John Wiley & Sons, Inc.	2015	TX553 P7 A65 2015	1
Dean, John	Environmental trace analysis: techniques and applications	Wiley	2014	TD193 D43 2014	1

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Fahlman, BD [and six others]	Chemistry in context : applying chemistry to society	McGraw-Hill	2018	QD415 .C44 2018	1
Burdge, J. & Driessen, M	Introductory chemistry : an atoms first approach	McGraw-Hill Education,	2017	QD31.3 B87 2017	1
Engel, T [and two others]	Physical chemistry for the life sciences	Pearson Prentice Hall	2008	QP517 P49 E54 2008	

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Ustunol, Z	Applied food protein chemistry	John Wiley & Sons, Inc.	2015	TX553 P7 A65 2015	1
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Christian, G.D. [and two others]	Analytical chemistry	John Wiley and Sons, Inc	2014	QD101.2 C57 2014	1
Skoog, Douglas [and three others]	Fundamentals of analytical chemistry	Brooks/Cole, Cengage Learning	2014	QD75.22 F865 2014	1
Mott, HV	Environmental process	Wiley	2014	TD193 M68	1

	analysis : principles and modeling			2014	
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BIOLOGY

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—	Molecular cell biology of the growth and differentiation of plant cells	CRC Press/Taylor & Francis Group	2016	QR728 M65 2016	1
—	Cell structure and function	Magnum Publishing	2016	QH581 C45 2016	1
—	Biochemistry & molecular biology of plants	John Wiley & Sons Inc.	2015	QR961 B56 2015	1
Mahajan, Naresh	Bioinformatics and molecular evolution	Random Publications	2015	QH371.3 M37 M34 2015	1
Hartwell, Leland	Genetics : from genes to genomes	McGraw-Hill Education	2015	QH430 G458 2015	1
Dale, Jeremy W. [and two others]	From genes to genomes : concepts and applications of DNA technology	John Wiley & Sons	2012	QA465 A1 D35 2012	1
Bolsover, Stephen R	Cell biology: a short course -3 rd ed.	Wiley-Blackwell	2011	QH581.2 C36 2011	1
Karp, Gerald	Cell biology	John Wiley & Sons	2010	QH581.2 K37 2010	1
Xu, Yunbi	Molecular plant breeding	Cambridge, MA	2010	SB106 .14 X8 2010	1
Murray, Robert K	Harper's illustrated biochemistry	McGraw-Hill Medical	2009	QP514 R4 2009	1

Subject BIOL227- Developmental Biology

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Bauman, Robert	Microbiology with disease by taxonomy	Benjamin Cummings	2011	QR41.2 B38 2011	1
Sarker, Amita	Understanding laboratory animals	Discovery Publishing House	2010	SF406 S27 2010	1

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Corinaldesi, Cinzia.	Microbial ecology	Intelliz Press	2016	QR100 M53 2016	1
Izard, Jacques & Rivera, Maria C., (eds.)	Metagenomics for microbiology	Academic Press/Elsevier	2015	QH434 M48 2015	1
Cowan, Marjorie Kelly	Microbiology : a systems approach	McGraw-Hill Education	2015	QR41.2 C69 2015	1
Bauman, Robert	Microbiology: with diseases by body system. 3 rd ed.	Benjamin Cummings	2012	QR41.2 B38m 2012	1
Ivanov, Volodymyr	Environmental microbiology for engineers	CRC Press	2011	QR100 I93 2011	1
Sharma, Shweta	Industrial microbiology.	Arnoel Publications	2011	QR53 S53 2011	1
Bauman, Robert W.	Microbiology with disease by taxonomy. – 3 rd ed.	Benjamin Cummings	2011	QR41.2 B38 2011	1
Tortora, Gerald J	Microbiology: an introduction. 10 th ed.	Pearson Benjamin Cummings	2010	QR41.2 I67 2010	1

Subject: BIOL292 –Microtechniques in Biology

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Osborn, Anne and three others	Natural products : discourse, diversity and design	John Wiley & Sons	2014	QR186 N38 2014	1
Kreitzer, Gary and Celis, J.E.	Cell biology assays : essential methods	Academic	2010	QH583.2 C45 2010	1
Hartmann, Hudson T.	Hartmann & Kester's plant propagation : principles and practices	Prentice Hall/Pearson	2011	SB119 P55 2011	1

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Iwashina, Tsukasa	Flavonoids of the plants composing flora of Japan	National Museum of Nature and Science	2018	QR898 F5 I93 2018	1
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	grassland agriculture, volume 1			2018	
–	Plant taxonomy.	3G E-learning	2018	QK95 P53 2018	1
Benintendi, Renato	Process safety calculations	Elsevier	2018	TP155.5 B46 2018	1
Grant, Hector, ed.	Advances in responses of plants under stress: plant biology, biochemistry and physiology with their application to plant improvement	Nyx Academics LLC	2013	QK7 M12 A38 2013	1
–	Plant science: growth, development, and utilization of cultivated plants	Prentice Hall	2011	SB91 P18 2011	1
McMahon, M	Plant science: growth, development and utilization of cultivated plants	Prentice Hall	2011	SB91 P18 2011	1

Subject: BIOL205 –Biol. Diversity of Trop. Ecosystems

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Starr, Cecie	Ecology and behavior, volume 6	Cengage Learning	2016	QH313 S73 2016 v.6	1
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Starr, Cecie	Biology: the unity and diversity of life	Cengage Learning	2016	QH308.2 B56 2016	1
Offit, Anne	Ecosystems diversity	Callisto Reference	2015	QH541 O34 2015	1
	Ecology: global insights & investigations	McGraw-Hill Education	2015	QH541 S75 2015	1
Stiling, Peter	Ecology: global insights and investigations	McGraw-Hill Education	2015	QH541 S75 2015	2
Vandermeer, John H.	The ecology of some ecosystems	Jones and Bartlett Publishers	2010	S589.7 V36 2010	4
Silkin, Alan	Principles of ecology and management: international challenges for future practitioners	Goodfellow Publishers	2011	QH541 S58 2011	1
	The economics of managing on farm	Earthscan	2011	SB123 J4 K35 E26 2011	1
Kirk, John	Light and photosynthesis in aquatic ecosystem	Cambridge University Press	2010	QR382 K57 2010	1
Zetell	Geographic information system to support	Food and Agriculture Organization of the United Nations	2009	SH331.5 C65 G46 2009	1
	Models for ecosystem		2007		1

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Subject: BIOL 241 – Advanced Plant Systematics

Author	Title	Publisher	Copyright Year	Call No.	No. of Copies
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--	Biotechnology and plant breeding : applications and approaches for developing improved cultivars	Elsevier/AP, Academic Press is an imprint of Elsevier	2014	SB106 .B56 B552 2014	1
--	Wildlife in a changing climate	Food and Agriculture Organization of the United Nations	2012	QH541.15 B66 W55 2012	1
Hodkinson, Trevor R.	Climate change, ecology, and systematics	Cambridge University Press	2011	QC981 C55 2011	1
--	Crop wild relatives : a manual of in situ conservation	Earthscan	2011	SB123.3 C76 2011	1
Vandemeer, John H.	The ecology of agroecosystems	Jones and Bartlett Publishers	2010	S589.7 V36 2010	1

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Starr, Cecie and two others	Ecology and behavior, volume 6	Cengage Learning	2016	QH313 S73 2016 v.6	1
Buchanan, Bob B. and two others	Biochemistry & molecular biology of plants	John Wiley & Sons Inc.	2015	QK861 B56 2015	1
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	Improvement				
Schaefer HM and Ruxton, Graeme	Plant-animal communication	Oxford University Press	2011	QH549B .S63 2011	1
Heldt, HW and two others	Plant biochemistry	Academic	2011	QK681 .H45 2011	1
Rice, Laura Williams and Robert, Jr.	Practical horticulture	Prentice Hall	2011	SB318 .R53 2011	1
Kirk, John T.O.	Light and photosynthesis in aquatic ecosystems	Cambridge University Press	2011	QK682 .K57 2011	1
Marshall, C. and Grace, J.	Fruit and seed production: aspects of development, environmental physiology and ecology	Cambridge University Press	2008	QK660 F78 2008	1

X. FACILITIES

A. Rooms

Room	No. of Rooms	Seating Capacity
Classrooms	7	50-100
Accreditation Room	1	25
Students Lounge	1	15
Faculty Room	8 Cubicles	20

B. Equipment and Materials

Equipment/Materials	Quantity
LCD Projector	8
LED TV	5
AC Units	12
Speaker	2
Photocopying Machine	1
Risograph Machine	1
Desktop	6
Printers	7

XI. CURRICULUM MAP

Vision: A globally competitive university for science, technology, and environmental conservation.
Mission: Development of a highly competitive human resource, cutting-edge scientific knowledge and innovative technologies for sustainable communities and environment.

Code	Core Courses	Unit	a	b	c	d	e	f	g	h	i	j
EDUC201	Foundations Of Education	3	I	I	D	E	I	I	D	E	I	I
EDUC202	Social Science Statistics	3	I	E	I	E	E	E	E	E		E
EDUC203	Methods in Educational Research	3	E	E	D	D	D	D	D	D	E	E
EDUC204	Graduate Seminar	1	I	I		I	I		I	I	I	I

Code	Biology	Unit	a	b	c	d	e	f	g	h	i	j
BIOL238	Molecular Biology	3	E	E	E	E	E	E	E	E	E	E
BIOL227	Development Biology	3	E	D	D	D	D	E	D	E	D	E
BIOL293	Microbiological Techniques	3	E	E	E	E	E	E	E		E	E
BIOL292	Micro techniques in Biology	3	E	E	D	D	D	E	E	D	D	
BOTN215	Advances in Plant Growth and Biology	3	E	E	E			E	E		E	E
BIOL205	Biological Diversity of Tropical Ecosystems	3		E	E	E	E	E	E	E	E	E

Code	English	Unit	a	b	c	d	e	f	g	h	i	j
ENGL229	Western Literary Works	3	E	E	E	E		E	E		E	E
ENGL232	Studies in Philippines	3	E	E	E	E	E	E	E	E	E	E
LTNG207	Introductory Linguistics	3	E	E	E	E	E	E	E	E	E	E
LTNG211	Teaching Literature	3	E	D	D	D	D	E	E	D	D	
LTNG212	Techniques in advanced composition	3	E	E	E	E	D	D	D	E	E	E
LTNG216	Teaching Speech Communication	3	E	D	D	D	D	D	D		D	E

Map Legend	
Code	Course Classification
EDUC	Professional Education Courses
BIOL & BOTN	Biology Courses
ENGL & LTNG	English Courses
PHED	Physical Education Courses
CHEM	Chemistry Courses
MATH	Math Courses

Code	Descriptor
I	Introductory Course
E	Enabling Course
D	Demonstrative Course
Code	Definition
I	An introductory course to an outcome
E	A course that strengthens the outcome
D	A course demonstrating outcome

Code	Physical Education	Unit	a	b	c	d	e	f	g	h	i	j
PHED206	Administration of Physical Education	3	I	I		E	E	E	I	I	I	E
PHED207	Current Trends in Physical Education	3	E	E	E	E	E	E	E	E	E	E
PHED208	Curriculum Development in Physical Education	3	E	E		E	E	E		D	E	D
Code	Chemistry	Unit	a	b	c	d	e	f	g	h	i	j
CHEM206	Organic Chemistry	3	E	E	E	E	E	E	E	E		E
CHEM207	Chemical Structure	3	E	E	E		E	E		E	E	E
PHED212	Dance, Creativity and Production	3	E	D	D	D	D	D	E	E	D	D
CHEM208	General Thermodynamics	3	E	D	E	E	E	E	E	E	F	E
CHEM209	Organic Chemistry	3	E	D	D	D	D		D		E	D
CHEM211	Chemistry in Living Systems	3	E	E	E	E	E	E	E	E	E	E
CHEM212	Analytical Chemistry	3	D	E	D	D		D	D	D	E	D

Code	Mathematics	Unit	a	b	c	d	e	f	g	h	i	j
MATH200	Set and Number Theory	3	E	E	E	E	E	E	E	E	E	E
MATH201	Strategies in Teaching Mathematics	3	E	E	D	D	D	E	E	D	D	E
MATH202	Mathematical Analysis	3	E	E	D	E	D	E	D	E	E	D
MATH203	Linear Algebra	3	E		E	E	E		E	E		E
MATH204	Abstract Algebra	3	E	E	E	E	E		E	E	E	E

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MATH205	Modern Geometry	3	E	E	E	E	E	E	E	E	E	E	E
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XII. Summary of Revisions:

	Particulars	Existing	Proposed Revision	Remarks (if any)
1	Revision of M.Ed (Non-Thesis) to MA.Ed (W/Thesis)	Master in Education (Non-Thesis)	Master of Arts in Education (With Thesis) –Academic Track Thesis Writing- 6 Units	Based on feedback from stakeholders
2	Reduction in the number of Units in the Core, Major, and Cognate/Minor Courses for students to work on writing and publishing thesis work	Core Courses – 15 Major Courses- 18 Cognate/Minor- 9 Total: 42	Core Courses-9 Major Courses- 12 Cognate/Minor- 6 Graduate Seminar-1 Master's Thesis- 6 Total: 34	
3.	Changes in the Core Courses	EDUC 201- Foundations of Education EDUC 202- Human Development and Learning Theories EDUC 203 – Research in Education EDUC 204- Educational Administration and Supervision EDUC 212- Educational Communication Technology	EDUC 201- Foundations of Education (Retain) For Deletion EDUC 203- Methods in Educational Research (Change in Course title and description) For Deletion For Deletion	
	Addition 1 Core Course, undergraduate seminar, and Thesis	None	EDUC202- Social Science Statistics EDUC204- Graduate Seminar	

			EDUC300- Thesis	
	Addition of Mathematics as major/ specialization of MA.Ed program	None	<p>MATH 200- Set and Number Theory</p> <p>MATH 201- Strategies in Teaching Mathematics</p> <p>MATH 202- Mathematical Analysis</p> <p>MATH 203- Linear Algebra</p> <p>MATH 204- Abstract Algebra</p> <p>MATH 205- Modern Geometry</p>	
	Changes of Course Title	<p>CHEM206 – Inorganic Chemistry</p> <p>CHEM207 – Chem. Structure and Reactivity</p> <p>CHEM208 – Chemical Thermodynamics</p> <p>CHEM209 – Organic Chemistry</p> <p>CHEM211 – Chemistry in Living Systems</p> <p>CHEM212 – Analytical Chemistry</p>	<p>CHEM206 – Foundations of Inorganic Chemistry</p> <p>CHEM207 – Environmental and Green Chemistry</p> <p>CHEM208 - Chemical Thermodynamics, Equilibrium and Kinetics</p> <p>CHEM209 - Organic Chemistry for Educators</p> <p>Units: 3 units (2 hours/week lecture; 3 hours/week laboratory)</p> <p>CHEM211 - Chemistry in Living Systems</p> <p>CHEM212 – Fundamentals of Analytical Chemistry</p> <p>Units: 3 units (2 hours/week lecture; 3 hours/week laboratory)</p>	Based from the suggestion of DOPAC faculty members



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