

LIST OF ELECTIVES

College of Arts and Sciences

Department of Humanities

ENG 4. Masterpieces of World Literature (3).

The great literary world masterpieces representing the Asian, European, and American traditions; the analysis of ideas and forms. 3 hr (class) PR. Hum 1. (1,2).

ENG 5. Expository Writing (3).

The development of a lucid and effective expository style through a directed analytical study of prose writing in the informal, literary-formal and scientific styles of great thinkers. 3 hr. (class). PR. HUM 1. (1,2).

FRCH 10. Elementary Grammar and Composition (3).

Reading and translation of easy French prose. 3 hr. (class). (1).

JAP 10. Elementary Japanese (3).

To teach basic Japanese grammar, Japanese expressions in different social locations. (1).

SPAN 1. Elementary Spanish (3).

Intensive practice in conversational Spanish on an elementary level. The work consists entirely of the oral aspects of a language study; pronunciation, vocabulary building, reading aloud, comprehension of the spoken language, and conversation. Functional grammar is given to the students to serve as a guide in the formation of correct speech habits. 3 hr. (class). (1,2,M).

Department of Social Sciences

POSC 165. Contemporary Philippine Politics (3).

Analysis of current issues and problems in Philippine politics. 3 hr. (class). PR. POSC 10 or COI. (1).

PSY 101. Filipino Psychology (3).

Indigenous psychology based on Filipino culture and society; concepts, theories and methodologies. 3 hr. (class) PR. NONE. (1).

SOC 112. Sociology of Politics (3).

The analysis of the social base of power policy formulation. 3 hr. (class). PR. SOSC 1 (SSP) or SOSC 2 (SSP) or COI. (2).

SOC 130. Social Psychology (3).

An empirical approach to the study of individuals in small groups; person perception, group structure and process attitudes and communication influences on group behavior. 3 hr. (class). PR. SOSC 1 (SSP) or COI. (1,2).

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Institute of Computer Science

CMSC 129. Principles of Compiler Design (3).

Fundamental concepts in the design and implementation of compilers: lexical analysis, syntax analysis, intermediate code generation, code generation and optimization. 5 hr. (2 class, 3 lab) PR. CMSC 124. (2).

CMSC 161. Interactive Computer Graphics (3).

Graphics systems software and hardware, 2D drawing algorithms, geometrical transformations, surface modeling, 3D viewing, visible surface determination algorithms, reflection and illumination models, shading models for polygons, color theory, ray tracing, animation. 5 hr. (2 class, 3 lab) PR. CMSC 123. (2).

CMSC 165. Digital Image Processing (3).

Methods for acquiring, creating and manipulating, enhancing, and analyzing digital images. 5 hr. (2 class, 3 lab) PR. CMSC 123. (1).

CMSC 172. Robot Modeling (3).

Robotics manipulators and their characteristics; conversion from joint space to real world coordinates; inverse kinematics; workspace analysis; differential motion. 5 hr. (2 class, 3 lab) PR. CMSC 123. (2).

CMSC 191. Special Topics (3).

Maybe taken twice provided that total number of units to be credited to the students' program will not exceed 4 units. PR. COI. (1,2).

Institute of Mathematical Sciences and Physics

Applied Mathematics

AMAT 170. Theory of Interest (3).

Principles, methods and applications of the theory of interest. 3 hr (class). PR. MATH 27 or MATH 37. (2).

AMAT 171. Life Insurance Mathematics 1 (3).

Mortality, life annuities, life insurance policies, and net premiums, methods of valuation modified and net level reserves, non-forfeiture options, and gross premiums. 3 hr (class). PR. AMAT 170 and STAT 1. (1).

AMAT 172. Life Insurance Mathematics 2 (3).

Mathematical theory of contingencies of single and multiple lines. 3 hr (class). PR. AMAT 171 (2).

AMAT 174. Measurement of Mortality (3).

Theory and methods of measuring mortality. 3 hr (class). PR. AMAT 172. (1).

AMAT 176. Actuarial Science (3).

Investment of life insurance funds, selection of risks and reinsurance, valuation of liabilities, non-forfeiture values, asset share studies, process of premium formulation. 3 hr (class). PR. AMAT 172. (1).

Applied Physics

PHYS 13. General Physics II (Electricity and Magnetism) (3).

Sources, effects, measurements and uses of electricity and magnetism; fundamentals of wave motion applied to the study of sound and light. Primarily for students in the natural and engineering sciences. 5 hr. (2 class, 3 lab). PR. PHYS 3. (1, 2, M).

PHYS 23. Optics and Modern Physics (3).

Laws of refraction and reflection of light; nature of spectra; interference, diffraction and polarization phenomena, introduction to atomic and nuclear physics. 5 hr. (2 class, 3 lab). PR. PHYS 13. (1, 2, M).

Institute of Statistics

STAT 144. Introductory Statistical Theory I (3).

Probability models; operations on probability; random variables and random vectors; mathematical expectations; sampling from a probability distribution; introduction to statistical inference. 3 hr. (class). PR. MATH 28. (1,2).

STAT 145. Introductory Statistical Theory II (3).

Discrete and continuous probability models; generating functions; functions of random variables and random vectors; sampling from normal populations; large- sample theory. 3 hr. (class). PR. STAT 144 and MATH 28 or MATH 38. (1,2).

STAT 162. Experimental Designs I (3).

Principles of experimental design; analysis of completely randomized design; randomized complete block design, latin square design, factorial experiments, split-plot design, treatment comparisons and analysis of covariance. 5 hr. (2 class, 3 lab). PR. STAT 1 or COI. (1,2, M).

STAT 164. Statistics for the Biological Sciences (3).

Statistical modelling of biological data; parametric and nonparametric tests for comparing means; analysis of relationships among variables; probit analysis; linear discriminant analysis; cluster analysis; analysis of categorical data. 5 hr. (2 class, 3 lab). PR. STAT 1. (2).

STAT 181. Statistical Computing (3).

General methods of approximation, approximating probabilities and percentage points, resampling. 5 hr. (2 class, 3 lab). PR. COI. (1).

College of Development Communication

DEVC 10. Introduction to Development Communication (3).

Communication theory and analytical survey of communication media for development. 3 hr (lect/recit). (1,2).

DEVC 11. Introduction to Mass Media Writing (3).

Principles and practice of preparing written materials for the print, broadcast and audiovisual media. 5 hrs (2 class, 3 lab). PR. DEVC 10.

DEVC 20. Fundamentals of Development Journalism (3).

Principles of gathering and writing of developmental news and information, with emphasis on news recognition and accuracy. 3 hr (lect/recit). PR. DEVC 11 or COI. (1, 2).

DEVC 30. Fundamentals of Community Broadcasting (3).

Nature of the broadcast media, concept of radio and TV community broadcasting, principles of broadcast writing, program planning and production. 3 hr (lect/recit). PR. DEVC 11 or COI. (1,2).

DEVC 40. Fundamentals of Educational Communication and Technology (3).

Theories, principles, and concepts of educational communication and technology; practice in planning and designing of media-based learning systems. 3 hr (lect/recit). PR. DEVC 11 or COI (1,2).

DEVC 102. Writing for Educational Communication Media (3).

Principles and techniques of script writing for educational communication media with emphasis on sound slides, television and film. 7 hr (1 class, 6 lab). PR. DEVC 40 or COI. (1,2).

DEVC 120. Development Writing (3).

Nature and practice of in-depth investigative, interpretative, trend, and process reporting, with emphasis on development news features. 5 hr (2 class, 3 lab). PR. DEVC 20 or COI (1,2).

DEVC 121. Publications Writing and Editing (3).

Preparation and processing of extension and other informational publications, including the mechanics of layout, copy reading, copy fitting and the use of illustrations. 3 hr (lect/recit). PR. DEVC 102 or DEVC 120 or DEVC 131 or COI. (1,2).

DEVC 122. Science Reporting (3).

Nature of the broadcast media, concept of radio and TV community broadcasting, principles of broadcast writing, program planning and production. 3 hr (lect/recit). PR. DEVC 11 or COI. (1,2).

DEVC 130. Broadcast Speech and Performance of Community Radio (3).

Announcing, voicing, recording and directing techniques for community radio programs. 5 hr (2 class, 3 lab). PR DEVC 30 or COI. (2).

DEVC 131. Writing and Program Planning for Community Radio (3).

Scriptwriting for community radio; program planning and building; producing news, interview, variety and other radio programs. 5 hr (2 class, 3 lab). PR. DEVC 130 or COI. (1).

DEVC 133. Broadcast-Based Distance Learning System (3).

Planning, designing, conducting, and evaluating radio schools and other broadcast-based distance learning formats. 5 hr (2 class, 3 lab). PR. DEVC 40 and DEV 131, or DEVC 102, or COI. (1).

College of Economics and Management

Department of Agribusiness Management

MGT 101. Concepts and Dynamics of Management (3).

Principles and techniques of managing organizations; analysis of actual management problems and situations. 3 hr. (class). PR. COI. (1,2).

MGT 109. Managerial Economics (3).

Application of economic tools and analysis to the management of business enterprises. 3 hr. (class). PR. ECON 11 and MGT 101 (1,2).

MGT 111. Principles of Accounting (3).

Introductory course in accounting as a tool and basis of business decisions. 3 hr. (class). PR. COI. (1,2).

MGT 121. Quantitative Business Analysis (3).

Application of mathematical tools and principles in business analysis. 3 hr. (class) PR. MGT 101 or COI. and STAT 1. (1,2).

MGT 131. Introduction to Human Relations and Behavior in Organizations (3).

Introduction to the concepts and principles underlying individual and group behavior in organizations. 3 hr. (class). PR. MGT 101 or COI. (1,2).

MGT 133. Personnel Management (3).

Principles and process of selecting, developing and maintaining personnel; methods of dealing with personnel problems. 3 hr. (class). PR. MGT 101 or COI. (2).

Department of Economics

ECO 11 . General Economics (3).

Introduction to economic analysis with special applications to the Philippines. 3 hr. (class). (1,2).