



Republic of the Philippines
OFFICE OF THE PRESIDENT
COMMISSION ON HIGHER EDUCATION

CHED MEMORANDUM ORDER (CMO)

NO. 07

Series of 1998

SUBJECT: UPDATED POLICIES AND STANDARDS FOR PHYSICAL THERAPY AND OCCUPATIONAL THERAPY EDUCATION

In accordance with pertinent provisions of Republic Act (RA) No. 7722, otherwise known as the "Higher Education Act of 1994," and for the purpose of rationalizing Physical Therapy and Occupational Therapy Education in the country with the end in view of keeping apace with the demands of global competitiveness, the following policies and standards for Physical Therapy and Occupational Therapy Education are hereby adopted and promulgated by the Commission, thus:

ARTICLE I
AUTHORIZATION

SECTION 1. Only Higher Education Institutions that own a base hospital with Rehabilitation Center with physical therapy/occupational therapy facilities which will comply with the policies and standards, managed by a physical therapist working with a physiatrist or Higher Education Institution's with notarized contract with an accredited rehabilitation center duly authorized by the Commission on Higher Education upon the recommendation of the Regulatory Board of Physical Therapy and Occupational Therapy of the professional Regulation Commission shall offer Physical Therapy and occupational Therapy courses.

SECTION 2. Representatives from the Commission on Higher Education and the Board of Examiners for Physical Therapy and Occupational Therapy shall make an ocular inspection of all facilities of the institution to assure that they conform with the required policies and standards as specified therein. The concerned professional associations may be consulted from time to time and may be invited to join the inspection team.

**ARTICLE II
MISSION STATEMENT**

SECTION 1. The main objective of the Physical Therapy/Occupational Therapy Education is to provide the country with Physical Therapists/ Occupational Therapists who are humane and scientifically competent to deliver the full spectrum of Physical Therapy/Occupational Therapy services needed in modern health care.

SECTION 2. To meet this objective, integrated and sequential courses of study shall be planned, utilizing didactic instructions, laboratory practice and clinical education with the goals of:

- 2.1 Providing opportunity, instruction and guided experience by which the students learn the basic knowledge and acquire the skills essential to the practice of Physical Therapy/Occupational Therapy.

**ARTICLE III
ADMINISTRATION**

SECTION 1. The general qualifications of the Dean/Director of the Physical Therapy/Occupational Therapy school are:

- 1.1 Must be a Filipino citizen.
- 1.2 A Physical Therapist/Occupational Therapist with the following qualifications:
 - 1.2.1 Must be a holder of a Master's degree in Health Science, MA Educational Administration or appropriate master's degree in a related discipline.
 - 1.2.2 Must have a minimum of five (5) years of clinical and/or teaching experience.
 - 1.2.3 Must be of good standing, a member of the PRC accredited professional association

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- 1.3 Must be a licensed Physician and Board Certified Psychiatrist.
- 1.4 Must of good moral character.

1.5 Must be the head of only one institution at a time.

1.6 Preferably be active members of accredited scientific and professional organizations as indicated in their personal files.

ARTICLE IV FACULTY

SECTION 1. Each faculty member must possess the academic preparation appropriate to his teaching assignments:

1.1 To teach the liberal arts subjects, he must:

1.1.1 fulfill the policies and standards for Arts and Sciences Education stipulation on Faculty (Art. V) promulgated by the Commission on Higher Education (CHED).

1.1.2 show competence in the field of specialization he is teaching.

1.1.3 have at least one (1) year of teaching experience.

1.2 To teach Physical Therapy/Occupational Therapy professional subjects, he/she must:

1.2.1 have a B.S. degree in Physical Therapy/Occupational Therapy.

1.2.2 be licensed Physical Therapist/Occupational Therapist in the Philippines. If licensed abroad, such license should be accredited by the PRC Board of Physical Therapy/Occupational Therapy. Those licensed abroad will be dealt with on a case to case basis.

1.2.3 have completed at least a seminar in teaching methods and strategies (in curriculum development teaching and evaluation techniques, etc.)

1.2.4 preferably at least one (1) year teaching experience for didactic lecturers or a one (1) year clinical experience for laboratory supervisors.

1.2.5 show competence in the subject/s he/she is teaching.

1.3 To teach Medical subjects, he/she must:

1.3.1 be a licensed Physician, as a registered Physical Therapist/ Occupational Therapist with a special training in the area/subject he/she is teaching or a masters degree in the subject.

1.3.2 have at least one (1) year experience in teaching the subject/s.

1.3.3 show competence in the subject/s he/she is teaching.

SECTION 2. When a vacancy occurs in the teaching force of the school during the year, a substitute with similar or higher credentials may be employed.

SECTION 3. Faculty Development Program. For an effective operation of the school, institute, college or university offering Physical Therapy/Occupational Therapy, there should be a faculty development program to improve the profession. This program may be carried out through:

3.1 Scholarship grants to full time faculty members.

3.2 Educational loans or tuition fee discounts to faculty members enrolled in the graduate school.

3.3 Subsidized attendance in Continuing Education programs, conferences, professional and scientific meetings, etc.

3.4 The institution should encourage research among its faculty members for the improvement of the Physical Therapy/Occupational Therapy profession.

SECTION 4. Each college/university should have a faculty manual containing information and policies of all matters pertaining to the faculty.

SECTION 5. Clerical help should be provided to handle correspondence records and other secretarial functions.

ARTICLE V
CURRICULUM
(see attached prototype curriculum)

SECTION 1. The minimum requirements for the Bachelor of Science in Physical Therapy and Occupational Therapy curriculum are flexible depending on the needs of the profession and in accordance with the policies and standards of CHED.

SECTION 2. The effectivity and implementation of the curriculum under these Policies and Standards shall be on the following schedules:

- 2.1 First Year - School Year 1998 - 1999
- 2.2 Second Year - School Year 1999 - 2000
- 2.3 Third Year - School Year 2000 - 2001
- 2.4 Fourth Year - School Year 2001 - 2002
- 2.5 Fifth Year - School Year 2002 - 2003

ARTICLE VI
INSTRUCTIONAL STANDARDS

SECTION 1. The institution must maintain a high quality of education, utilizing appropriate updated syllabi and instructional procedures which contribute to a sound Physical Therapy/Occupational Therapy education. A system of supervision should be instituted and implemented for the purpose of evaluating teaching competence.

SECTION 2. The institution should provide for a systematic and continuing plan of evaluation of the students' progress through a grading system not norm based but should be criterion referenced that is consistent with the standards set by the institution.

SECTION 3. No student shall be given credit for a course unless he/she has fulfilled the requirements for entrance thereto, has attended classes regularly and has reasonable minimum competence in each subject. The promotional record should be kept in the school within the following semester for examination in case of any grievance or complaint.

SECTION 4. The institution must prescribe the basic and standard textbooks to be use which are of recent edition and which reflect the current trends in the Physical Therapy/Occupational Therapy profession. The Institution may change textbooks only once in five (5) years.

SECTION 5. The institution must provide the necessary instructional materials like anatomy models, teaching slides, charts, etc. including audio-visual equipment for the use of the students for a more effective teaching-learning process.

SECTION 6. The number of sections in every year of the Physical Therapy/Occupational Therapy course should be in proportion to the size of the faculty, classrooms, laboratory and clinical facilities with a faculty-student ratio as specified in Sections 7 and 8 (8.4.3) of this Article.

SECTION 7. The ratio of faculty to student in practicum or laboratory classes in the sciences and Physical Therapy/Occupational Therapy subjects must not exceed 1:20 while the ratio in lecture classes must not exceed 1:50.

SECTION 8. In the internship training program where the students develop professional skills by a systematic application of scientific knowledge to actual clinical situations in the hospital and in the community, the following conditions should be observed:

- 8.1 There must be a close correlation between the theoretical knowledge and clinical experience.
- 8.2 There must be a well planned and organized program of field experience in Physical Therapy/Occupational Therapy techniques and management as a scientific tool in actual situation.
- 8.3 The institution must provide the students and affiliation centers with Manual on Clinical Training including minimum training requirements and evaluation procedures for the students' performance and the center's evaluation as well.
- 8.4 To assure the efficacy of the clinical training program, the following standards must be observed:
 - 8.4.1 Hospitals and rehabilitation centers chosen for affiliation must be accredited by the Philippine Hospital Association, the Association of Philippine Physical Therapy and Occupational Therapy Schools and the Ministry of Health except Physical Therapy/Occupational Therapy facilities utilized for rural and community services and Physical Therapy/Occupational Therapy facilities in military services.
 - 8.4.2 The minimum ratio of intern to patients treated in the facility must be 1:4.

8.4.3 The maximum ratio of clinical instructor of the affiliation center to interns must be 1:10 for Physical Therapy and 1:8 for Occupational Therapy.

8.4.4 The interns during the course of their training must have exposure to a variety of clinical experiences which should include patients with the following disorders:

- a. neurological
- b. musculoskeletal
- c. pulmonary
- d. cardiovascular
- e. psychosocial dysfunctions

8.4.5 Clinical experiences should include the treatment of a wide variety of patients of various age groups and of both sexes.

8.4.6 Clinical Instructors sent by the institution to the affiliation centers must periodically monitor the interns' performances.

For OT

1. Students must always be supervised by an OTRP.
2. Ultimate responsibility lies on OTRP supervisor, not the student.

ARTICLE VII LIBRARY

SECTION 1. Every school, institution college or university offering a Physical Therapy/Occupational Therapy course should have adequate library space, facilities and resources, both basic and reference materials, relevant to liberal arts, Physical Therapy/Occupational Therapy and medical subjects specified by the curriculum. These shall serve the needs of the students and should progressively grow in accordance with the expansion plans of the institution.

SECTION 2. Physical Therapy/Occupational Therapy students should have access to science libraries, the total basic collection of relevant books must total not less than 5,000. Recency of edition should at least be 5 years.

SECTION 3. The institution offering the Physical Therapy/Occupational Therapy course must assure the availability of at least fifty (50) books, pamphlets, monographs and serials specifically used as basic and reference reading materials by students for the Physical Therapy/Occupational Therapy subjects.

SECTION 4. The library should subscribe to an adequate number of scientific journals and periodicals. It should also assure the subscription to at least one (1) journal of international circulation in Physical Therapy/Occupational Therapy to update the students and faculty staff in the latest developments in the field.

SECTION 5. The institution offering the Physical Therapy/Occupational Therapy course has the freedom to select the basic textbooks to be used by the students in all the subjects specified in the curriculum. However, the library facility of the institution should possess one (1) copy of each of these basic textbooks for every ten (10) students enrolled but unable to procure these books.

SECTION 6. The quantity of other reading materials should also be in proportion to the enrollment and should be responsive to the needs of the students.

SECTION 7. The schools of physical therapy and occupational therapy are encouraged to acquire state of the art materials and equipment such as computerized library facilities with complete audio visual equipment (e.g. microfilms, tapes, etc.)

ARTICLE VIII LABORATORY FACILITIES

SECTION 1. Every school, institution, college or university offering a Physical Therapy/Occupational Therapy course should provide for an adequate number of lecture rooms and laboratories equipped with blackboards and desks. In addition, the use of audio-visual aids should be encouraged.

SECTION 2. The school, institution, college or university offering a Physical Therapy/Occupational Therapy course should have its own fully equipped laboratory, distinct from the clinical facilities of the hospital, for the purpose of providing instruction and practice to the students in the proper application of equipment.

SECTION 3. The laboratory room for Physical Therapy practicum should be well-lighted and ventilated and should be equipped with the following:

- 3.1 plinths with mattresses with a ratio of 1:2
- 3.2 stools with a ratio of 1 per student
- 3.3 grounded 3-pronged electrical outlets on all four walls
- 3.4 small dressing area
- 3.5 basic physical therapy equipment (at least one of each)
 - 3.5.1 short-wave or microwave diathermy
 - 3.5.2 therapeutic ultrasound machine
 - 3.5.3 transcutaneous nerve stimulator or interferential current therapy machine
 - 3.5.4 Faradic/Galvanic Electrical stimulator
 - 3.5.5 ultraviolet and infrared lamps
 - 3.5.6 chonaximeter or strength duration (IDC) generator or electromyography (optional)
 - 3.5.7 cervical or lumbar traction machine
 - 3.5.8 hydrocollator packs
 - 3.5.9 paraffin wax bath
 - 3.5.10 assistive devices (crutches, canes, walkers, etc.)
 - 3.5.11 exercise equipment/weights
 - 3.5.12 posture mirror
 - 3.5.13 pillows, sheets, towels

SECTION 4. The specific requirements of the Occupational Therapy laboratory facilities are as follows:

- 4.1 A laboratory should have a minimum floor space of one square meter/1-2 students, with 1-5 students per locker;
- 4.2 Each laboratory should have:
 - 4.2.1 Continuous and adequate supply of water, gas and/or electricity
 - 4.2.2 Fire extinguisher which should be easily accessible
 - 4.2.3 First aid and emergency shower
 - 4.2.4 First aid kit/cabinet

4.3 The laboratory room should be well-lighted and ventilated and should include the following:

4.3.1 Therapeutic skills laboratory with equipment adequate and materials necessary for teaching and learning basic human occupation appropriate to the community such as various arts and crafts, cottage industries, recreational, social and educational activities.

4.3.2 Independent living skills laboratory with adequate facilities, equipment/tools and materials for the following activities:

4.3.2.1 mobility includes movement in bed, wheelchair mobility and transfers, and management of public or private transportation;

4.3.2.2 self-care includes dressing, feeding, toileting, bathing and grooming activities;

4.3.2.3 management of environmental hardware and devices includes the ability to use telephone, keys, faucets, light switches, windows, doors, scissors, and street control signals;

4.3.2.4 communication skills include the ability to write, operate a personal computer, read, type, and use the telephone, tape recorder, or a special communications device;

4.3.2.5 home management activities include marketing, meal planning and preparation, cleaning, laundry, child care, and the ability to manage household appliances.

4.3.3 Facilities for evaluation and treatment of:

4.3.3.1 Physical Dysfunction

a. furniture like chairs, tables/ plinths, bed, mirror, standing box, footstool, etc.

b. mat

- c. adequate and appropriate evaluation and treatment equipment/tools and materials for motor, sensory, cognitive, perceptual, coordinative activities orthoses and prostheses

4.3.3.2 Psychosocial Dysfunction

- 4.3.4 Prevocational evaluation area with adequate facilities and relevant work and job samples.

- 4.4 The Institution offering occupational therapy/physical therapy program should not be limited by the list provided in Section 5. The head and faculty of the program should always inject creativity, resourcefulness and ingenuity in the acquisition of new and adapted equipment, tools and materials for a thorough and dynamic training of students.

SECTION 5. Laboratory facilities for medical subjects such as Physiology, Neurophysiology and Neuroanatomy are optional and may be substituted with class demonstrations.

- 5.1 Physiology Laboratory should be adequately equipped to carry on experiments or demonstrations in:

- 5.1.1 Arterial blood pressure
- 5.1.2 Respiratory experiments - respiratory
- 5.1.3 Respiratory experiments - control of separation
- 5.1.4 Investigation of general sensation
- 5.1.5 Nerve-Muscle experiment
- 5.1.6 measurement of Radiation and Skin Temp.
- 5.1.7 Circulation
- 5.1.8 Quantitative stimulation of pain
- 5.1.9 Human metabolism and adaptation to exercise
- 5.1.10 Muscular efficiency and ergometry
- 5.1.11 Ventilatory capacity

- 5.2 Normal Tissue slides of:

- 5.2.1 epithelium - simple, squamous, cuboidal
- 5.2.2 skin
- 5.2.3 glands
- 5.2.4 conduction tissues
- 5.2.5 fatty tissues
- 5.2.6 reticular tissue
- 5.2.7 blood

- 5.2.8 bone marrow
- 5.2.9 cartilage
- 5.2.10 compact bone
- 5.2.11 skeletal muscle
- 5.2.12 cardiac muscle
- 5.2.13 blood vessel
- 5.2.14 lung
- 5.2.15 smooth muscles
- 5.2.16 nerves

SECTION 6. An anatomy laboratory is necessary in the Physical Therapy/Occupational Therapy education and shall contain the following:

- 6.1 human cadavers with a ratio of one (1) cadaver for every ten (10) students;
- 6.2 dissection tables;
- 6.3 skeleton
 - 6.3.1 a mounted articulated skeleton for every group of five (5) students
 - 6.3.2 a complete disarticulated skeleton for every group of five (5) students
- 6.4 timers and tags;
- 6.5 charts//atlases/plastic models

ARTICLE IX ADMISSION, SELECTION AND RETENTION

SECTION 1. The Institution shall establish its own set of admission criteria, policies and standards.

SECTION 2. A basic criteria for admission shall however include the following:

- 2.1 The applicant must have graduated from a general secondary course authorized by the government. Graduates of foreign school must have clearance from the Department of Education, Culture and Sports;
- 2.2 The applicant must have passed the National Secondary Achievement Test (NSAT);

2.3 The applicant must have never been convicted of any crime and is of good moral character;

2.4 The applicant must have passed a physical, psychological and social adjustment examinations to determine his/her suitability for the profession.

SECTION 3. The requirements in the promotion and retention of students shall be determined according to the criteria established by the institution (Standard of OT-consistent with criteria reference) offering the course.

SECTION 4. In general, however, no student shall be permitted to take a subject until he/she satisfactorily passed the prerequisite subjects.

SECTION 5. Psychological and guidance counselling shall be available to the students of the course.

SO ORDERED.


Pasig City, Philippines, January 21, 1998


ANGEL C. ALCALA
Chairman


MONA D. VALISNO
Commissioner


KATE C. BOTENGAN
Commissioner


ESTER A. GARCIA
Commissioner


ROBERT N. PADUA
Commissioner

REVISED CURRICULUM FOR B.S. PHYSICAL THERAPY

FIRST YEAR

1st Semester

	Hours		Units
	Lec	Lab	Total
Philippine History	3	-	3
*General Sociology	3	-	3
English 1 (Communication Skills)	3	-	3
Math 1 (College Algebra)	3	-	3
Zoology 1 (General Zoology)	3	6	5
Pilipino 1 (Sining ng Pakikipagtalastasan)	3	-	3
P.E. 1			(1)
ROTC			(1)
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2nd Semester

	Hours		Units
	Lec	Lab	Total
English 2 (Communication Skills)	3	-	3
Math 2 (Trigonometry)	3	-	3
Pilipino 2 (Retorika)	3	-	3
Zoology 2 (Comparative Anatomy)	3	6	5
General Psychology	3	-	3
Logic	3	-	3
P.E. 2			(1)
ROTC			(1)
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*Taxation and Agrarian Reform to be integrated.

SECOND YEAR

1st Semester

	Hours		Units Total
	Lec	Lab	
Literature 1 (The Philippine Literature)	3	-	3
Math 3 (Biostatistics)	3	-	3
Physics 1 (General Physics)	3	6	5
Chemistry 1 (General & Inorganic)	3	6	5
Philippine Gov't. & the New Constitution	3	-	3
Health Care I	3	3	4
P.E. 3			(1)
ROTC			(1)
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2nd Semester

	Hours		Units Total
	Lec	Lab	
Literature 2 (World Literature)	3	-	3
Rizal Course	3	-	3
Physics 2 (Applied Physics)	3	-	3
Chemistry 2 (Organic Chemistry)	3	6	5
Health Care II	3	-	3
Philosophy	3	-	3
Research Methodology	3	-	3
P.E. 4			(1)
ROTC			(1)
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THIRD YEAR

1st Semester

	Hours		Units Total
	Lec	Lab	
Anatomy 1 (Musculo-Skeletal System Head, Face and	4	2	5
Physiology 1 (General Physiology)	3	2	4
Psychiatry 1 (Psychological Reactions to Disability)	3	-	3
Physical Therapy 1 (Introduction to Patient Care, Hydrotherapy, Massage and Superficial Heat)	3	2	4
Ethics	2	-	2
Human Growth and Development	3	-	3
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			21

2nd Semester

	Hours		Units Total
	Lec	Lab	
Anatomy 2 (Cardio-Pulmonary and Others)	4	2	5
Physiology 2 (Neuro-physiology)	3	-	3
Therapeutic Exercises 1 (Physiology of Exercise, Types and Postures)	3	2	4
Pathology (General Pathology)	2	-	2
PT 2 (Principles of Evaluation Techniques, RDM, MMT, Charting)	2	4	4
Electrotherapy 1	1	4	3
			<hr/>
			21

FOURTH YEAR

1st Semester

	Hours		Units Total
	Lec	Lab	
Anatomy 3 (Kinesiology)	5	-	5
Medical/Surgical 1 (General Medical and Pediatric Conditions)	5	-	5
Therapeutic Exercise 2 (Specific Exercises, PREs)	2	4	4
Medical/Surgical 2 (Neurology Neuro Surgery)	3	-	3
Organization and Administration	2	-	2
Seminar 1 (Clinical Correlation, Team Approach)	1	-	2
Electrotherapy 2	1	4	3
			24

2nd Semester

	Hours		Units Total
	Lec	Lab	
Medical/Surgical (General Surgical Conditions, Radiology, and Orthopedic Conditions)	5	-	5
Therapeutic Exercise 3 (Advanced Therapeutic Exercise, PNF)	2	4	4
Orthotics and Prosthetics (Splinth, Casting, Bandaging, Bracing, Artificial Limbs)	3	2	4
Clinical Education + (Introduction to Clinics)	-	4	2
Seminar 2 (Clinical Correlation, Team Approach)	2	-	2
*Thesis Writing	-	-	3
			20

*Elective

FIFTH YEAR

1st Semester

Clinical Internship Program 30 Units
(10 months of rotating internship - 5 days a week)

Clinical Education 2	15
Seminar 3	3
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	18

2nd Semester

Clinical Education 2	15
Seminar 4	3
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	18

MINIMUM COURSE REQUIREMENTS FOR B.S. PHYSICAL THERAPY

SUMMARY

I. General Education Courses	61
II. Other Required Sciences and Math Courses	15
III. Physical Therapy, Medical & Therapeutic Courses	85
IV. Clinical Practice/Internship	32

Total Units	193

I. GENERAL EDUCATION COURSES	61 Units
A. Languages	18
1. English	12
English 1 Communication Skills 1	3
English 2 Communication Skills 2	3
Lit 1 The Philippine Literature	3
Lit 2 World Literature	3
2. Pilipino (with Rizal)	6
Pilipino 1 Sining ng Pakikipagtalastasan	3
Pilipino 2 Retorika	3
B. Natural Sciences and Mathematics	22
1. Sciences	13
Chemistry 1 General & Inorganic	5
Physics 1 General Physics	5
Physics 2 Applied Physics	3
2. Mathematics	9
Mathematics 1 College Algebra	3
Mathematics 2 Trigonometry	3
Mathematics 3 Biostatistics	3

C. Social Sciences	21
General Psychology	3
Philippine History	3
Phil. Gov't. & the New Constitution	3
General Sociology	3
Logic	3
Rizal Course	3
Philosophy	3
D. Physical Education/ROTC	
II. OTHER REQUIRED SCIENCES AND MATHEMATICS COURSES	15 Units
A. Biological Sciences	10
Zooology 1 General Zoology	5
Zooology 2 Comparative Anatomy	5
B. Physical Sciences	5
Chemistry 2 Organic Chemistry	5
III. PHYSICAL THERAPY, THERAPEUTIC, MEDICAL	85 Units
A. Physical Therapy	42
1. P.T. 1 (Intro. to Patient Care, Hydrotherapy, and Massage, Heating Modalities)	4
2. Electrotherapy 1 and 2	6
Electro 1 (high frequency)	
Electro 2 (low and medium frequency)	
3. P.T. 2 Measurement & Eval. in P.T.	4
4. Therapeutic Exercises I	4
5. Therapeutic Exercises II	4
6. Therapeutic Exercises III	4
7. Organization and Administration	2
8. Ethics in Physical Therapy	3
9. Research Methodology	3
10. Seminar 1 & 2	4

B. Medical Courses 43

Anatomy 1, 2, & 3 (Including Gross Anatomy, (Neuro-Anatomy and Kinesiology)	15
Physiology 1 & 2 (Physiology & Neurophysiology)..	7
Pathology (General Pathology)	2
Psychiatry 1	3
Medical Foundation 1 (General Medical Conditions)	5
Medical Foundation 2 (Neurology)	3
Medical Foundation 3 (General Surgical Condition with Orthopedics)	5
Orthotics and Prosthetics	3

IV. CLINICAL EDUCATION/INTERNSHIP 32 Units
(Fifth Year - 10 Months Full-Time)

Clinical Education 1 (Introduction to Clinics)	2
Clinical Internship	30

REVISED CURRICULUM FOR B.S. OCCUPATIONAL THERAPY

FIRST YEAR

1st Semester

	Hours		Units
	Lec	Lab	Total
English 1 (Communication Skills)	3	-	3
Philippine History	3	-	3
Math 1 (College Algebra)	3	-	3
Zoology 1 (General Zoology)	3	6	5
Pilipino 1 (Sining ng Pakikipagtalastasan)	3	-	3
General Sociology	3	-	3
P.E. 1			(1)
ROTC			(1)
			<hr/>
			20

2nd Semester

	Hours		Units
	Lec	Lab	Total
English 2 (Communication Skills)	3	-	3
General Psychology	3	-	3
Math 2 (Trigonometry)	3	-	3
Pilipino 2 (Retorika)	3	-	3
Zoology 2 (Comparative Anatomy)	3	6	5
Logic	3	-	3
P.E. 2			(1)
ROTC			(1)
			<hr/>
			20

SECOND YEAR

1st Semester

	Hours		Units
	Lec	Lab	Total
Lit 1 (The Philippine Literature)	3	-	3
Math 3 (Biostatistics)	3	-	3
Physics 1 (General Physics)	3	6	5
Chemistry 1 (General & Inorganic)	3	6	5
Philippine Gov't. & the New Constitution	3	-	3
Health Care I	3	-	3
P.E. 3			(1)
ROTC			(1)
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			23

2nd Semester

	Hours		Units
	Lec	Lab	Total
Lit 2 (World Literature)	3	-	3
Rizal Course	3	-	3
Research Methodology	3	-	3
Human Development	3	-	3
Philosophy	3	-	3
Chemistry 2	3	6	5
Health Care II	3	-	3
P.E. 4			(1)
ROTC			(1)
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			23

THIRD YEAR

1st Semester

	Hours		Units Total
	Lec	Lab	
Anatomy 1 (Gross Anatomy with Histology, Embryology & related subjects)	4	2	5
Physiology 1 (General Physiology)	3	2	4
Occupational Therapy (Occupational Therapy Approaches and Frames of Ref.)	2	-	2
Human Behavior in Occupational Therapy (Personality Theories, Communica- tion, Teaching-Learning Process Counseling)	3	2	4
Therapeutic Skills 1 (minor Arts and Crafts)	2	4	4
Occupational Therapy (Introduction to Occupational Therapy and Rehabilitation) Perspective in OT	2	-	2
Pathology	2	-	2
			23

2nd Semester

	Hours		Units Total
	Lec	Lab	
Anatomy 2 (Gross Anatomy Continued and Nero Anatomy)	4	2	5
Anatomy 3 (Kinesiology and Biomechanics)	2	6	3
Physiology 2 (Neurophysiology)	3	-	3
Occupational Therapy 2 (Documentation)	2	1	2
Occupational Therapy 3 (Evaluation)	2	2	4
Therapeutic Skills 2 (major Arts & Crafts)	2	4	4
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FOURTH YEAR

1st Semester

	Hours		Units Total
	Lec	Lab	
Medical Foundation 1 (General Medical Conditions)	5	-	5
Medical Foundation 2 (Neurology)	3	-	3
Medical Foundation 3 (Psychiatry)	3	-	3
Occupational Therapy 4 (OT in Psychosocial Dysfunction)	3	2	4
Organization & Adm. in Occupational Therapy	2	-	2
Clinical Education 1 (Introduction to Clinics in Psychosocial Dysfunction)	-	4	2
Introduction to Therapeutic Modalities	2	-	3
Pharmacology	2	-	2
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2nd Semester

	Hours		Units Total
	Lec	Lab	
Medical Foundation 4 (General Surgical Conditions including Orthopedic)	5	-	5
Occupational Therapy 5 (OT in Physical Dysfunctions including Pediatrics and Gerontology)	5	1	6
Orthotics and Prosthetics	2	4	4
Clinical Education 2 (Introduction to Clinics in Physical Dysfunction)	-	4	2
Ethics in Occupational Therapy	2	-	2
Occupational Therapy Community Health and Rehabilitation	2	4	4
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FIFTH YEAR

1st Semester

	Hours		Units Total
	Lec	Lab	
Clinical Education 3	15	-	15
*Thesis Writing	2	-	2
Seminar	3	-	3
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			20

2nd Semester

	Hours		Units Total
	Lec	Lab	
Clinical Education 4	15	-	15
Seminar	3	-	3
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			20

*Elective

MINIMUM COURSE REQUIREMENTS FOR B.S. OCCUPATIONAL THERAPY

SUMMARY

I. General Education Courses	58
II. Other Required Sciences and Math Courses	10
III. Occupational Therapy, Medical & Therapeutic Courses	91
IV. Clinical Practice/Internship	34
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	Total Units 193

I. GENERAL EDUCATION COURSES 71 Units

A. Language	18
1. English	12
English 1 Communication Skills 1	3
English 2 Communication Skills 2	3
Lit 1 The Philippine Literature	3
Lit 2 World Literature	3
2. Pilipino	6
Pilipino 1 Sining ng Pakikipagtalastasan	3
Pilipino 2 Retorika	3
B. Natural Sciences and Mathematics	19
1. Sciences	10
Chemistry 1 General & Inorganic	5
Physics 1 General Physics	5

2. Mathematics	9	
Mathematics 1 College Algebra	3	
Mathematics 2 Trigonometry	3	
Mathematics 3 Biostatistics	3	
C. Social Sciences	21	
General Psychology	3	
Philippine History	3	
Phil. Gov't. & the New Constitution	3	
*General Sociology	3	
Logic	3	
Philosophy	3	
Rizal Course	3	
D. Physical Education/ROTC		
II. OTHER REQUIRED SCIENCES AND MATHEMATICS COURSES	10 Units	
A. Biological Sciences	10	
Zoology 1 General Zoology	5	
Zoology 2 Comparative Anatomy	5	
B. Physical Sciences	5	
**Chemistry 2 Organic Chemistry	5	
III. OCCUPATIONAL THERAPY, THERAPEUTIC, MEDICAL COURSES		80 Units
A. Occupational Therapy, Therapeutic and Clinical Management .	23	
Introduction to OT Rehabilitation	3	
OT Therapy, Approaches & Frames of Reference	2	
OT Evaluation & Treatment Procedures/ Technique	4	
OT in Community Health and Rehabilitation	4	
OT Management in Psychosocial Dysfunction	4	
OT Management in Physical Dysfunction	6	

*Taxation and Agrarian Reform to be integrated.

** Elective

B. Therapeutic and Related Courses 27

Therapeutic Skills 1	4
Therapeutic Skills 2	4
Human Development	4
Human Behavior in Occupational Therapy	4
Organization and Administration	2
Undergraduate Thesis Writing	3
Ethics in Occupational Therapy	2
Seminar	4

C. Medical Courses 41

Anatomy 1, 2, 3 (including Gross Anatomy Neuroanatomy & Kinesiology).....	13
Physiology 1 & 2 (Physiology and Neuro Physiology)	7
Pathology (General Pathology)	2
Medical Foundation 1 (General Medical Conditions)	5
Medical Foundation 2 (Neurology)	3
Medical Foundation 3 (Psychiatry)	3
Medical Foundation 4 (Gen. Surgical Condition with Orthotics)	5
Orthotics and Prosthetics	3

IV. CLINICAL EDUCATION/INTERNSHIP 34
(Fifth Year - 10 Months Full-Time)

Clinical Education	4
General Education	30

Psychosocial Dysfunctions	500 hours
Physical Dysfunctions	600 "
Community Services	400 "
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	1500 hours

COURSE DESCRIPTION OF PHYSICAL THERAPY

ANATOMY 1 - Lecture (4 units) - Laboratory (1 unit) - 5 units

The course is designed to provide basic learning experiences in human embryology, histology, genetics and gross anatomy of the human body with emphasis on the study of the upper and lower extremities and the back. Cadaver dissection and practical correlation of the subject matter are performed during laboratory sessions.

ANATOMY 2 - Lecture (4 units) - Laboratory (1 unit) - 5 Units

The course provides a continuum in the study of gross human anatomy and neuroanatomy which includes the regional anatomy of the head and neck, brain and spinal column, thorax and abdomen, male and female pelvis and perineum; and opportunity for first hand dissection experience which includes brain cutting is provided during laboratory period.

ANATOMY 3 - (Kinesiology and Biomechanics) Lecture (5 units)

A study of the biomechanics, physiology, and anatomy of bodily motion as related to locomotion, activities of daily living and physical exertion in normal and abnormal individuals.

PATHOLOGY - Lecture (2 units)

The subject provides a background knowledge on general pathology, tissue/cellular reaction to inflammation and injury, degeneration, tissue repair and process of healing and immunity. It also provides background knowledge in the study of the relationship of host, environ and pathogen in health and disease. The subject offers a demonstration by audiovisual aids on the pathologic changes of tissue/cell and the common pathogen.

PSYCHIATRY 1 - Lecture (3 units)

An introduction to psychiatry; stages of psychological development, emotional reactions to stresses and various coping mechanism, behavioral patterns, stages of psychological reactions to disability - normal and abnormal; mechanisms of operant conditioning in the management of handicapped patients.

MEDICAL/SURGICAL 1 - Lecture (5 units)

The subject offers 5 lecture hours per week on medical/surgical terminologies; disability-causing diseases entities in adults and pediatric with emphasis on rheumatology, cardiovascular diseases, pulmonary diseases, brain injuries (traumatic or infections; malignancy, genetic abnormalities, endocrine deficiencies, etc.)

MEDICAL/SURGICAL 2 - (Neurology) Lecture (3 units)

This is a study of surgical conditions that lead to transient or permanent disability-causing conditions and its sequelae. Includes topics on bone growth, bone healing process, stages of bone maturity, radiological changes and correlation of various disease processes. Specific orthopedic conditions such as tumor, amputation, congenital defects and abnormalities, fractures and infections, prosthetic replacements of hip, knee, interphalangeal joints, etc. are taken up.

MEDICAL/SURGICAL 3 (General Surgical-Orthopedics)

ORTHOTICS AND PROSTHETICS - Lecture (3 units)

The course deals with the study of the principles of splinting, casting, bandaging, bracing and the use of artificial limbs. Includes the indications, contraindications, prescriptions, measurements, principles of fabrication, fitting and checking out of orthopedic shoes and appliances.

RESEARCH 1 - Lecture (2 units)

The course offers a basic learning experience on the principles of statistical analysis, measures for central tendencies, dispersion, research design and methodology, research protocol writing, types of researches, and methods of sample gathering.

PHYSICAL THERAPY 1 - (Introduction to Patient Care, Hydrotherapy and Massage, Heating Modalities). Lecture (3 units) - Laboratory (1 unit) - 4 units

This course is an introduction and demonstrations in procedures necessary for basic care of patients. Includes techniques of sterile dressing application, vital signs, hydrotherapy, therapeutic massage, superficial heat, traction and intermittent compression.

PHYSICAL THERAPY 2 - (Electrotherapy) Lecture (3 units) - Laboratory (1 unit) - 4 units

Deals with the basic principles of electricity and their application to therapeutic and diagnostic use in Physical Therapy. Includes principles, techniques, physical and physiological bases for the therapeutic use of heat, cold, light, low frequency and high frequency currents and sound waves, and methods of performing and interpreting electromyography and nerve conducting measurements. Includes TENS, interferential current, laser, biofeedback, iontophoresis and phonophoresis.

PHYSICAL THERAPY 3 - (Measurement and Evaluation in Physical Therapy) Lecture (3 units) - Laboratory (1 unit) - 4 units

This course is an application of fundamental knowledge of the sciences of anatomy, physics, biomechanics and neurophysiology to measurement and movement. Deals with the evaluation and application of equipment, appliances and training procedures utilized to assist the handicapped to achieve maximum function. Includes teaching methods for independence at home and at work, as well as architectural barriers, range of motion, manual muscle testing, transfers and assistive devices.

PHYSIOLOGY 1 - (General Physiology and Neurophysiology)
Lecture (4 units) - Laboratory (1 unit) - 5 units

PHYSIOLOGY 2 - (Organ System Physiology) Lecture (3 units) -
Laboratory (1 unit) - 4 units

The course provides an introduction to (a) cellular physiology concerned with both those properties that characterize all living cells and those that are unique to special cell type such as neurons and muscle fibers (b) systemic physiology in which the activity of different tissues and organs subserve the various coordinated functions of the human body (e.g. cardio-vascular, respiratory and nervous system). Emphasis is on the understanding of the physiological basis of treatment procedures administered by the physical therapists. Lectures are supplemented by demonstrations and laboratory.

THERAPEUTIC EXERCISE 1 - Lectures (3 units)-Laboratory (4 units)

The course includes principles and physiology of exercises for all ages, and their general types and classification; postural alignment of body segments for maximum function is also emphasized, as well as posture evaluation and correction.

THERAPEUTIC EXERCISE 2 - Lecture (2 units) - Laboratory (2 units)
4 units

Sequential development of various exercise programs for specific entities and the development of basic teaching skills for the implementation of these exercises. This course deals with planning for home exercise programs for patients, families or community agencies.

THERAPEUTIC EXERCISE 3 - Lecture (2 units) - Laboratory (2 units)
4 units

Theories and techniques of specialized exercise regimen with emphasis on proprioceptive neuromuscular facilitation based on neurophysiological mechanisms.

ORGANIZATION AND ADMINISTRATION - Lecture (2 units)

Direction and management of rehabilitation/physical therapy units in hospitals, community centers, schools for handicapped individuals and public health agencies. Includes personnel selection, staff education, supervision, interdepartmental relationships, development and use of resources and program planning.

THERAPEUTIC EXERCISE 3 - Lecture (2 units) - Laboratory (2 units) 4 units

Theories and techniques of specialized exercise regimen with emphasis on proprioceptive neuromuscular facilitation based on neurophysiological mechanisms.

ORGANIZATION AND ADMINISTRATION - Lecture (2 units)

Direction and management of rehabilitation/physical therapy units in hospitals, community centers, schools for handicapped individuals and public health agencies. Includes personnel selection, staff education, supervision, interdepartmental relationships, development and use of resources and program planning.

ETHICS IN PHYSICAL THERAPY - Lecture (3 units)

The course will help physical therapy students to familiarize themselves with the process of ethical reasoning especially as it refers to clinical situations. Its aim is to help the students arrive at a right decision after considering the scientific, moral, legal and ethical aspects of a given situation.

COURSE DESCRIPTION OF OCCUPATIONAL THERAPY

**ANATOMY I (Gross Anatomy) - Lecture (4 units)-Laboratory (1 unit)
5 units**

A study of the gross structure of the human body with emphasis on the study of the musculoskeletal system, the cardiovascular and pulmonary systems. Study is carried out through lecture, audio-visual aids, cadaver dissection in the laboratory. Prerequisite: Zoology 2 (Comparative Vertebrate Anatomy).

**ANATOMY II (Neuroanatomy and Gross Anatomy continued) - Lecture
(4 units) - Laboratory (1 unit) - 5 units**

The course provides a continuum in the study of Gross Anatomy and Neuroanatomy which includes the regional Anatomy of the head and neck, brain and spinal column, thorax and abdomen, male and female pelvis and perineum. Same methodology as in Anatomy I. Prerequisite: Anatomy I

ANATOMY III (Kinesiology) - Lecture (3 units)

A study of the biomechanics of bodily motion as related to locomotion, activities of daily living, and physical exertion in normal and disabled persons. Special emphasis is given to application of principles and techniques in the study of the upper extremity. Prerequisite: Anatomy II

PATHOLOGY (General Pathology) - Lecture (2 units)

This study is of the fundamentals of General Pathology with emphasis on the correlation between pathological processes and clinical signs, symptoms and course of the disease. Includes general elementary pathology of inflammation and repair, degenerative processes, atrophy and hypertrophy. Prerequisite: Anatomy I and Physiology I

**PHYSIOLOGY I (General Physiology) - Lecture (4 units) -
Laboratory (2 units) - 5 units**

Prerequisite: Zoology 2 and Chemistry I

PHYSIOLOGY II (Neurophysiology) - Lecture (3 units)

An introduction to the study of cellular and systematic physiology. Emphasis is on the understanding of the physiological basis of treatment administered by the occupational therapist. Lectures are supplemented by demonstration and laboratory experiments.
Prerequisite: Physiology I & Anatomy I.

**MEDICAL FOUNDATIONS - (Lecture, Demonstrations and Audio-Visual
Aids) - 16 units**

Medical Foundation 1	-	General and Pediatrics
Medical Foundation 2	-	Neuro
Medical Foundation 3	-	Psychology
Medical Foundation 4	-	Ortho

**INTRODUCTION TO OCCUPATIONAL THERAPY AND
REHABILITATION - Lecture (2 units) - Practicum (1 unit) - 3 units**

Orientation to Occupational Therapy in Rehabilitation and Community Health with emphasis on Philippine conditions. Includes the history, objectives, functions and roles of Occupational Therapy: preventive, curative, and rehabilitative health care systems. Linkages with medical and allied profession, Philippine laws on rehabilitation as well as code of ethics of the profession will be discussed in relation to patient care.

OCCUPATIONAL THERAPY APPROACHES AND FRAMES OF REFERENCE - Lecture (2 units)

Theoretical principles and frames of reference in Occupational Therapy for Psychosocial and Physical Dysfunctions are presented in relation to OT practice in the Philippines. Prerequisite: Human Development, and Introduction to OT concurrently enrolled with Therapeutic Skills 1 with permission of the Director. Prerequisites: Human Development, and Intro. to OT concurrently enrolled with Therapeutic Skills 1 with permission of the Director

OCCUPATIONAL THERAPY EVALUATION AND TREATMENT PROCEDURES - Lecture (3 units) - Laboratory (1 unit) - 4 units

Introduction to evaluation procedures and modalities used by occupational therapists in the management of physical and psychosocial dysfunctions. Applications of procedures and techniques are correlated with theoretical approaches and frames of reference taken up in Occupational Therapy II. Prerequisite: Occupational Therapy II, Anatomy, Physiology I, Human Development, Human Behavior in Occupational Therapy.

OCCUPATIONAL THERAPY IN COMMUNITY HEALTH AND REHABILITATION - Lecture (3 units) - Practicum (1 unit) - 4 units

An introduction course to the role/functions of Occupational Therapy in Community Health and Rehabilitation programs/services, home health after care, rural health, vocational rehabilitation, etc. Also included are applications of principles, evaluation and construction of prevocational and standardized tests.

OCCUPATIONAL THERAPY MANAGEMENT AND PSYCHOSOCIAL DYSFUNCTION - Lecture (3 units) - Practicum (1 unit) - 4 units

This study deals with the application of Occupational Therapy evaluation technique and management principles in the rehabilitation of persons with psychosocial dysfunctions. Selected patient caseload and case presentations included. Prerequisite: second year and third year subjects.

OCCUPATIONAL THERAPY MANAGEMENT IN PHYSICAL DYSFUNCTION - Lecture (5 units) and Practicum (1 unit) - 6 units

Application of Occupational Therapy in the treatment/management of physical disabilities of children and adults, focusing on the cases commonly encountered in hospitals, rehabilitation centers, and clinics in the country. Prerequisite: second year and third year subjects.

HUMAN DEVELOPMENT - 3 units/60 hours (lectures, Demonstration)

Introduction to principles of growth and development in early life through old age with emphasis on motor, perceptual, cognitive, language, psychological, and social development. Special needs and cultural influences of different age groups as well as preventive and rehabilitative strategies/interventions such as play therapy and group dynamics will be stressed. Prerequisite: General Psychology

HUMAN BEHAVIOR IN OCCUPATIONAL THERAPY - 4 units/ 80 hours (Lecture, Demonstration)

Introduction to theories of personality and psychological dysfunctions. Application of therapy systems and frames of reference relevant to evaluation and case study, method, group process techniques, counseling, and the teaching-learning process will be developed. Prerequisite: Psychology I

THERAPEUTIC SKILLS I - 4 units/80 hours (Lecture, Laboratory)

An introductory course on the significance and value of daily life activities with emphasis on the socio-cultural variables as they influence adaptive behavior and the health-illness continuum. Includes introduction to varied creative and graphic media. Also deals with activity analysis principles and application for therapeutic interventions.

THERAPEUTIC SKILLS II - 4 units/80 hours (Lecture, Laboratory)

Development and mastery of skill in the use of varied semi-structured media, tools and processes, including manual crafts, fabrication and adaptive devices in the various media/crafts, and others as may be developed in the practice of Occupational Therapy. Prerequisite: Therapeutic Skills I

ORTHOTICS AND PROSTHETICS - Lecture (2 units) - Laboratory (1 unit) - 3 units

The course covers principles, evaluation, designs and fabrications of static and dynamic extremity splinting and selected lower extremity splints. Prosthetics includes types of upper extremity amputations, evaluations, indications for various prosthetic and Prosthetic checkout. Prerequisite: Anatomy, Kinesiology, Therapeutic Skills, Occupational Therapy Evaluation and Treatment Procedures.

ORGANIZATION AND ADMINISTRATION - Lecture (3 units)

Principles of organization and administration of Occupational Therapy services including budgeting, ordering, physical layouting, record keeping, and supervision.

UNDERGRADUATE THESIS WRITING - 3 units

The completion of a mature and original research in the clinical setting is a prerequisite to graduation. Studies responsive to problems in the clinics are encouraged.

CLINICAL INTERNSHIP PROGRAM - 30 units

This is the final stage of professional development at the undergraduate level. Students devote 1500 hours to the practice of Occupational Therapy under the guidance of clinical educators/supervisors in selected Occupational Therapy department, Rehabilitation Centers/Clinics. Clinical rotation should be observed in the following areas:

Psychosocial Dysfunction	- 500 hours
Physical Dysfunction	- 600 "
Community Service	- 400 "
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	1500 hours

Prerequisite: All basic subjects and professional subjects, with the permission of the director of the institute.