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JUN 15 2004

DepED ORDER  
No. **41**, s. 2004

REVISED CURRICULUM OF THE 110 S & T ORIENTED (ESEP) HIGH SCHOOLS

To: Regional Directors  
Schools Division/City Superintendents  
Heads, Public Secondary Schools

1. In line with this Department's policy of making the curriculum relevant to the needs of the learners, the Revised Secondary Education Program of the 110 S & T Oriented High Schools offering the Engineering and Science Education Program (ESEP) shall be implemented effective SY 2004-2005.
2. The implementation shall be done on a staggered schedule as follows:

First Year	-	SY 2004 - 2005
Second Year	-	SY 2005 - 2006
Third Year	-	SY 2006 - 2007
Fourth Year	-	SY 2007 - 2008
3. Enclosure No. 1 indicates the time allotment and the unit credits of the subjects comprising the revised ESEP curriculum. The Course Description is provided in Enclosure No. 2. The Learning Competencies of the subjects shall be distributed to the schools concerned. The instructional materials shall be those used in the Basic Education Curriculum, in addition to other references provided by the Science Education Institute of the Department of Science and Technology (SEI-DOST).
4. The program shall be implemented in at least two (2) classes in each year level with a maximum of 40 students per class. Admission shall be opened to entering First Year High School students with honors and the upper 20 percentile rank of qualifiers of the High School Readiness Test (HSRT).
5. For inquiries or clarifications about the program, please get in touch with the BSE Director, Attn.: Ms. Victoria V. Cervantes, with tel. nos. 632-77-46 and 635-47-66.
6. All other issuances on the curriculum of the S & T Oriented (ESEP) High Schools, that are inconsistent with this Order, are hereby amended accordingly.
7. Immediate dissemination of and compliance with this Order is directed.

EDILBERTO C. DE JESUS  
Secretary

Encls.:

As stated

Reference:

None

Allotment: 1—(D.O. 50-97)

To be indicated in the Perpetual Index  
under the following subjects:

ADMISSION or ENROLLMENT  
CURRICULUM  
CHANGE  
SCHOOLS  
STUDENTS

## (Enclosure No. 1 to DepED Order No. 41, s. 2004) - Revised Curriculum of the S &amp; T Oriented High Schools

Type of Subject	FIRST YEAR			SECOND YEAR			THIRD YEAR			FOURTH YEAR		
	SUBJECT OFFERINGS	TIME ALLOT/ week (MIN)	UNIT CREDIT	SUBJECT OFFERINGS	TIME ALLOT/ week (MIN)	UNIT CREDIT	SUBJECT OFFERINGS	TIME ALLOT/ week (MIN)	UNIT CREDIT	TIME ALLOT/ daily (MIN)	TIME ALLOT/ week (MIN)	UNIT CREDIT
C O R E	Filipino I English I Mathematics I (Elem. Algebra)	180 300 300	0.9 1.5 1.5	Filipino II English II Mathematics IIa (Geometry)	180 300 300	0.9 1.5 1.5	Filipino III English III Mathematics III (Adv. Algebra)	180 300 300	0.9 1.5 1.5	Filipino IV English IV Mathematics IV	180 300 300	0.9 1.5 1.5
S U	Science Ia (Integ. Science) Araling Panlipunan I	360 180	1.8 0.9	Science II (Biology) Araling Panlipunan II	360 180	1.8 0.9	Science III (Introd. Chem.) Araling Panlipunan III	360 180	1.8 0.9	Science IVa (Adv. Physics) Araling Panlipunan IV	360 180	1.8 0.9
B J	TLE I (Comp. Ed.)	240	1.2	TLE II - ICT - Agril/Fisheries - Civil Technology - Electronics/Electricity	240	1.2	TLE III - ICT - Agril/Fisheries - Civil Technology - Electronics/Electricity	240	1.2	TLE IV - ICT - Agril/Fisheries - Civil Technology - Electronics/Electricity	240	1.2
E C T S	MAPEH I Values Educ. I	240 60	1.2 0.3	MAPEH II Values Educ. II	240 60	1.2 0.3	MAPEH III Values Educ. III	240 60	1.2 0.3	MAPEH IV & CAT Values Educ. IV	300 60	1.5 0.3
Add'l Subjects	Science 1b (Earth & Env't Sci) Dev'tl. Reading	240 60	1.2 0.3	Research I (Eng for S & T/ Basic Statistics in Research) Mathematics IIb (Intermediate Algebra)	240 240	1.2 1.2	Biotechnology/ Adv. Stat Science IIIb (Basic Physics)	240 240	1.2 1.2	Science IVb (Adv. Chem) Research II (Research in Science)	240 240	1.2 1.2
Total		2,160 or 7.2 hrs. per day	10.8		2,340 or 7.8 hrs per day	11.7		2,340 or 7.8 hrs. per day	11.7		2,400 or 8 hrs. per day	12

## **Course Description**

### ***Earth and Environmental Science***

The subject deals with the study of the Earth, its origin, features and the components of its environment. Environmental Science is integral to the study of the Earth as it focuses on the environment, resources, problems and issues, and how these are addressed in an interdisciplinary manner.

The course is divided into three major topics: the Earth, the stars and the galaxy and the Environment. Each major topic is composed of subtopics which present the interconnectedness between and among concepts related to economic, social and moral issues.

### ***Science I (Integrated Science)***

The subject deals with the study of the basic concepts in Biology, Chemistry and Physics and their application to everyday life. It also gives emphasis on the methods and basic processes of science with the integration of values and attitudes that will help the students cope with the challenges of the fast changing world.

The course is divided into four (4) major topics, the methods and process of the three science areas, each of which is composed of interconnected subtopics anchored in the life experiences of the students.

### ***Mathematics 1***

Mathematics 1 is a 1.5 unit course on Elementary Algebra. The subject introduces the real number system and its properties and proceeds to simple manipulation of algebraic expressions, after which, solutions and graphs of linear equations together with its applications to word problems, are discussed. The subject ends with a discussion of both algebraic and graphical solutions to systems of linear equations and inequalities.

### ***Developmental Reading***

Developmental Reading for science-oriented schools serves as a reading laboratory focusing on science texts. It is intended to equip students with reading comprehension skills and the ability to determine the text structure of scientific and technical written discourse. This serves as a preparatory course to Technical Writing which is taken up in the 2<sup>nd</sup> Year. It provides students with further exposure to and practice in decoding texts that could serve as models in the forthcoming writing course.

The course has the following features: Students work independently, reading multi-level graded self access texts; they read the materials suited to their own reading level and work on the accompanying exercises designed to develop skills in discourse analysis and information mapping; they check their own work at least two (2) selections per one hour weekly session. And, they plot their own progress on a reading chart .

### ***Computer I***

Computer Education for the First Year is offered in place of Technology and Livelihood Education. It deals with Computer Applications, i. e. use of the computer as a multi-purpose tool. The course covers basic computer concepts, operating systems, application software and the internet as a tool in learning the different concepts in Science, Mathematics and other subjects.