

The chief danger is that our best men when trained will be induced by higher salaries, and better facilities, to leave Canada and go to the United States.

It should be clearly understood that good mathematical ability and enthusiasm for Physics and a fondness for experimental work are essential requisites for a Physical Engineer.

It is therefore recommended by Dr. L. Herdt, Professor of Electrical Engineering, by Dr. A. S. Eve and Dr. L. V. King Macdonald Professors of Physics that a course shall be approved, to commence 1st October 1920, for the training of Physical Engineers.

Students who have shown good ability in Mathematics and Physics in the Faculty of Arts or Faculty of Science should be admitted to such course next Session.

Details are set forth in Appendix 1 and Appendix 2.

The above is respectfully submitted for consideration to the Governors, Principal, Corporation, Faculty of Arts and Faculty of Science, with a view to bringing the scheme into operation in October 1920.

#### APPENDIX 1.

The course in Physical Engineering shall be open to Students in Arts entering their Third or Higher Year provided they have satisfactorily passed in the following pre-requisites

Mathematics	2, 4, 5.
Physics	1, 3, 4, or 2, 3, 4.

#### Third Year.

Arts, Mathematics 7, 12.	p.141
Arts, Physics, 5, 6, 12, 13	p.151
Science Electrical Engineering 113, 114	p.196

During their summer vacation (end of Second Year) the Student should spend three months at an approved shop or station (radio).

#### Fourth Year.

Arts, Mathematics. 9, 11.	p.141
Arts, Physics, 8, 9, 10, 11, 15 or 17	p.151

and proceed to the degree of B.Sc., Summer Thesis or Shop work. In their Fifth Year the student should take the whole of the Fourth Year Course for Electrical Engineering (page 196) and also Physics 14, 15 or 17, as 9 has already been taken, and proceed with research work and thesis with a view to M.Sc. degree.

The course must therefore cover five years and should cover six. During the last year (sixth) opportunity would usually occur to act as demonstrator with a salary.