

sea, under sea, in air, are alike already affected by the use of valves and amplifiers. There is and will be a demand for well trained men, not amateurs, for the Radio-Telegraph Branch of the Naval Service and for the Marconi Wireless Telegraph Company of Canada, Canadian General Electric Co. and Northern Electric Co.

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 bring the scheme into operation 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.A. Summer Thesis or Shop work. In their Fifth Year the student should take the whole of the Fourth Year Course for Electrical Engineering, also Physics