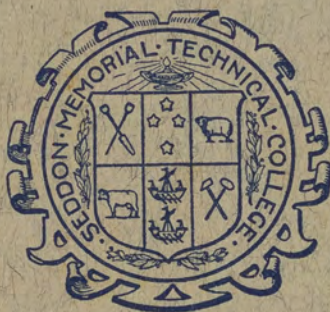


EDUCATION BOARD,  
AUCKLAND.



DEPARTMENT OF  
TECHNICAL EDUCATION  
AND MANUAL TRAINING

# SEDDON MEMORIAL TECHNICAL COLLEGE



## Prospectus of the Day Classes

FOR BOYS AND GIRLS.

Session 1913.

CLASSES COMMENCE MONDAY, FEBRUARY 17th, 1913

SCIENCE  
ART



COMMERCE  
TECHNOLOGY

SEDDON MEMORIAL TECHNICAL COLLEGE.

*Agreement between Parent and Board of Education.*

**Memorandum of Agreement** made this.....day of  
.....one thousand nine hundred and thirteen.

**Between** .....of the one part  
and the Education Board of the District of Auckland (hereinafter called "the Board") of the other part

**Whereby** it is mutually agreed between the parties hereto as follows :—

1. The Board will at the request of the said.....  
and upon the terms and conditions hereinafter set forth accept and enrol and instruct.....  
.....the.....of the said  
.....as a student at the

SMTC/1001/1913

SEDDON MEMORIAL TECHNICAL COLLEGE.

Agreement between Parent and Board of Education.

Memorandum of Agreement made this.....day of

.....one thousand nine hundred and thirteen.

Between .....of the one part and the Education Board of the District of Auckland (hereinafter called "the Board") of the other part

Whereby it is mutually agreed between the parties hereto as follows :-

1. The Board will at the request of the said..... and upon the terms and conditions hereinafter set forth accept and enrol and instruct.....the.....of the said.....as a student at the Day Classes of the.....Department of the Seddon Memorial Technical College for the session commencing..... and ending.....

2. In case the said..... shall not attend the said classes of the.....Department of the said College sufficiently regularly to earn Eight hundred hours' capitation in accordance with the regulations of the Education Department during the said session, or shall break such rules of the college as shall lead to his/her expulsion from the College, then the said..... will pay to the Board for such instruction as shall have been given to the said..... a sum equal to the difference between the sum, which would have been paid by the Education Department to the Board if the said..... had attended the said classes sufficiently regularly to have earned Eight hundred hours' capitation, as above, and the sum actually received by the Board from the Education Department by the way of capitation in respect of the attendance and instruction of the said.....

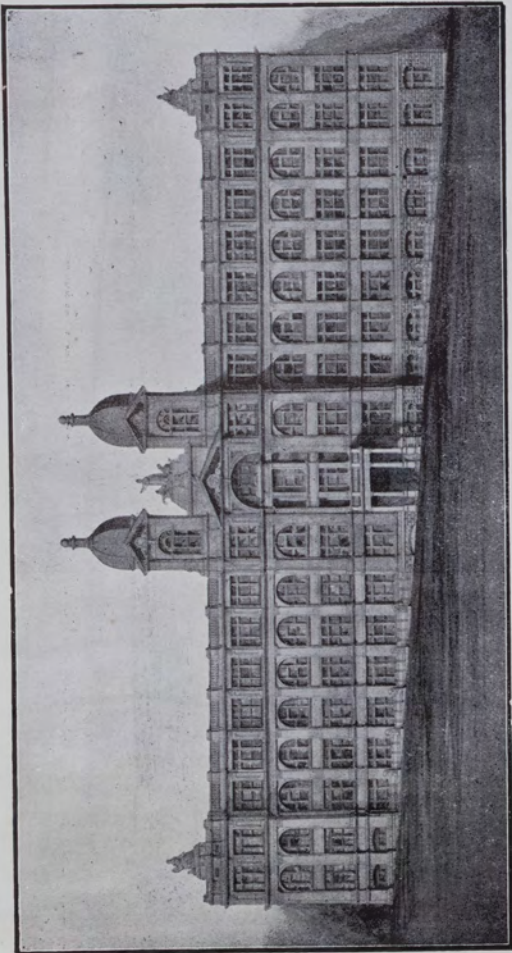
Provided always that in case the failure to attend the said classes for the necessary time as aforesaid shall have been occasioned by the illness of the said..... and a Doctor's Certificate to that effect shall have been produced to the Board, then no such sum shall be payable by the said..... to the Board.

In Witness whereof these presents have been executed by the parties hereto.

Signed by the said..... in the presence of.....

The Common Seal of the Education Board of the District of Auckland is hereto affixed in pursuance of a resolution passed this..... day of.....nineteen hundred and thirteen.

S.M.T.C. 11002 1213



The New Technical College as it will look when Completed.

EDUCATION BOARD, AUCKLAND.

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DEPARTMENT OF TECHNICAL EDUCATION AND  
MANUAL TRAINING.

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Seddon Memorial  
Technical College

PROSPECTUS

OF THE  
DAY CLASSES FOR BOYS AND GIRLS  
FOR THE SESSION COMMENCING  
MONDAY, FEBRUARY 17th, 1913.

## GOVERNORS of the COLLEGE

THE EDUCATION BOARD, AUCKLAND.

### Chairman :

GEORGE J. GARLAND, Esq.

EDWARD C. BANKS, Esq.

CHARLES T. BARRIBALL, Esq.

ARCHIBALD BURNS, Esq.

GEORGE EDGE CUMBE, Esq.

HENRY J. GREENSLADE, Esq.

ALFRED R. HARRIS, Esq.

JOHN D. MCKENZIE, Esq.

GEORGE W. MURRAY, Esq.

SECRETARY :

RICHARD CROWE

## STAFF

### Director of Technical Education and Manual Training :

**GEORGE GEORGE, F.I.C., F.C.S., M.R. San. I.**

Late Headmaster of the Sutherland Technical Institute, Longton, Staffordshire, and of the Longton High School; Associate of, and late Colston Exhibitioner and Assistant Master at, the Merchant Venturers' Technical College, Bristol.

### Assistant Director :

**WILLIAM LEWINS, B.Sc. (Lond.)**, late Inspector of Schools to the Blackburn Education Committee.

### Art :

**HARRY WALLACE**, late Organising Art Master to the Burslem School Board.

**JOHN B. GODSON, A.R.C.A. (Lond.)**, late Art Master at the Wolverhampton School of Arts and Crafts.

### Applied Mechanics, Heat Engines and Mechanical Drawing :

**CHARLES CARROL ALLEN, A.M.I.M.E., Wh. Ex.**, late Chief Lecturer in Mechanical Engineering, Municipal Technical School, Coventry.

### Practical Mathematics and Commercial Arithmetic :

**ROBERT B. MACDUFF, E.M., B.Sc. (Michigan College of Mines, U.S.A.)**.  
**CLAUDE E. BURGESS.**

### Practical Mathematics, Geometry and Mechanical Drawing :

**CLAUDE E. BURGESS.**

### Carpentry and Joinery and Manual Training (Woodwork) :

**ARTHUR D. TRENDALL, A.B.I.C.C.**, Honours in Carpentry and Joinery, City and Guilds of London Institute.

### Foundry Work, Turning and Fitting, Pattern-making and Manual Training (Metal Work) :

**EDWARD HAYDOCK**, late Workshop Superintendent to Messrs W. H. Bailey and Co., Ltd., Manchester.

### Magnetism and Electricity, and Theoretical and Practical Physics :

**FRANK L. N. TUCK, B.Sc. (Lond.)**, Assoc. C.G.I. (Lond.), formerly Estimating Engineer, Foreign Department, A.E.G., Berlin.

**WILLIAM E. BURLEY, B.A.**, late Secondary Master in Lyttelton District High School.

**FREDERICK E. MASON**, Undergraduate, University of New Zealand.

### Theoretical and Practical Chemistry :

THE ASSISTANT DIRECTOR.

**WILLIAM E. BURLEY, B.A.**

### Agriculture, Hygiene, Human Physiology and Plant and Animal Life :

**FREDERICK NEVE, M.A., LL.B.**

### English, History and Commercial Geography :

**HENRY R. URQUHART, M.A.**

**RONALD M. ALGIE.**

### Bookkeeping, Business Methods, Shorthand, Typewriting, Commercial History and Commercial Handwriting :

**ROBERT J. THOMPSON**, late Instructor at Rangiora Technical School.

**GEORGE GROOM**, sometime Principal of the London School of Shorthand.

**MISS ELIZABETH M. WILCOX**, late Commercial Instructor, Gisborne High School.

**Cookery, Laundry Work and Housewifery:**

- MISS MARGARET L. RENWICK, late Organising Instructor in Domestic Science to the Campbelltown Board; Diplômée in Cookery, Dressmaking, Laundrywork and Housewifery.  
MISS KATHERINE M. BURY, formerly Instructor under the Winchester Education Committee; Diplômée in Cookery, Laundrywork, Housewifery, Dressmaking and Needlework.

**Dressmaking and Needlework:**

- MISS ATALINA CAMPBELL, Holder of City and Guilds of London Institute Certificate in Dressmaking.

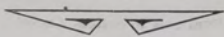
**Millinery:**

- MISS ASIA M. GOLDIE, Holder of City and Guilds of London Institute Certificates in Millinery, Dressmaking and Cookery.

**Physical Culture For Girls:**

- MISS FLORENCE BOYNTON.

Chief Clerk and Registrar ...	JOHN SALE
Accountant ... ..	LIONEL P. NORRIES
Senior Typiste ... ..	MISS FLORENCE J. RANKIN
Junior Typistes ... ..	MISS HELENA A. M. JORDAN and MISS ELMA BRADBURY
Junior Clerks ... ..	WILLIAM G. IVIL and HENRY BLAKELY



## BUILDINGS AND EQUIPMENT.

Up to the present time the City of Auckland has possessed no permanent building of the nature of a Technical College, technical teaching having been carried on during the last nine years in more or less unsuitable temporary buildings. Thanks largely to the generosity of the Auckland Savings Bank Trustees, who donated a sum of £10,000, and of several leading citizens who contributed sums ranging from £200 downwards, the first three stories of a new Technical College have been erected in Wellesley Street East. This College is to be called the "Seddon Memorial Technical College," and when completed will be the finest institution of its kind south of the line. The cost of the first three stories with equipment will be about £30,000, and an additional sum of £20,000 is urgently required to add the two top stories to the present portion.

In the new college, every attempt will be made to provide instruction on the most modern lines. The workshops, laboratories, class rooms, etc., have been specially designed and will be fitted up in a thoroughly up-to-date manner.

## THE OBJECT OF THE DAY CLASSES.

The object of the Day Classes at the Technical College, which were inaugurated in 1906, is to provide boys and girls who have passed the Sixth Standard at a Public School, during the *first two years* of their attendance at the College, with a sound general education (adapted as far as possible to meet the special requirements of different individuals) which shall fit them at the end of that time to either

- (a) Enter practical life as Apprentices, Articled Pupils, Clerks, etc., and continue their studies at the Evening Classes of the Technical College;
- or (b) Take up a Specialised Technical Course in the College Day Classes.

Boys and Girls as a rule pass out of the Public School with Standard VI. Certificates of Proficiency at the age of 13 or 14 years. They are then too young to commence learning a trade or profession; the interval is often filled up for the next two years by girls staying at home, and by boys taking up such situations as message or office boys, or in some other way which has little relation to the occupation which they intend later on to follow. During this interval, too, a great deal of the knowledge obtained at the Public School is forgotten, and when the boy does at last commence his apprenticeship, and at the same time enters the Evening Classes of the Technical College, he finds himself at a considerable disadvantage as regards continuing his studies.

Again it is generally acknowledged that when a boy enters a works, he spends the first year or so doing odd jobs such as sweeping up the shop, running errands for the men, etc. His practical knowledge is not generally sufficient for his employer to trust him with useful work.

Previous attendance at the Day Technical Classes would prevent this waste of time, as the employer or shop foreman would find that the boy had received such preliminary training as would render him *at once* useful.

From the courses given on pages 11-14, parents will make a selection for their boys and girls according to the occupation, trade, or profession that they intend them to follow.

The attention of parents is especially directed to the course of instruction in Domestic Science for girls, particulars of which will be found on page 12. Nothing is of greater importance to the community than that our girls should receive such training as will fit them to become good wives and mothers, and the course of training now offered at the College is such as will prove useful to girls, no matter what station in life they may occupy.

*This course was inaugurated for the first time at the commencement of 1908, and the parents of those girls who have been in attendance since that time are most enthusiastic over the benefits their daughters have derived.*

During the first two years' attendance at the College Day Classes, all pupils, no matter what course they have entered for, receive special instruction in the following :—

(1). **HANDWRITING.**—Systematic instruction is given in Commercial Handwriting, a style having been adopted which is not only legible when carefully written, but which does not degenerate into a scribble when one has learnt to use it rapidly.

(2). **ENGLISH, COMPOSITION, LETTER-WRITING, PARAPHRASING, AND THE CULTIVATION OF LITERARY TASTE.**—That comparatively few people are able to express themselves concisely and accurately in their mother-tongue is generally recognised; that a knowledge of the meaning of words and phrases is essential to students, and that the cultivation in the young of a taste for good literature is of the utmost importance, are universally admitted.

(3). **THE CULTIVATION OF NEATNESS, ACCURACY, RESOURCEFULNESS, AND MANUAL SKILL; ATTENTION TO DETAIL; DEVELOPMENT OF CHARACTER.**—“Whatever is worth doing, is worth doing well” seems to be an axiom that is almost forgotten in these days of “rush” and “make-money-quickly.”

(4). **THE IMPORTANCE OF COURTESY AND GOOD MANNERS.**—Even in democratic countries success in life depends largely on personal manners; “civility” does not mean “servility.”

(5.) **HEALTH AND PERSONAL HYGIENE.**

#### ADMISSION TO THE CLASSES.

**FREE PUPILS.**—The Day Technical School is free to any boy or girl who satisfies one of the following conditions :—

(a) Is the holder of an Education Board Scholarship, a Junior National Scholarship, or any other scholarship that the Minister shall approve for this purpose, provided that the value of any such scholarship is not greater than £40 per annum in the case of any pupil who is obliged to live away from home in order to attend the Day Technical School, or than £10 per annum in any other case; or

(b) Has qualified for an Education Board Scholarship or a Junior National Scholarship, or has qualified for a Junior Free Place in the special examination for Junior Free Places held by the Education Department; or

(c) *Being not over fifteen years of age on the 1st December* preceding the date of his admission to a Free Place, has obtained a *Certificate of Proficiency* as defined by Regulations under the Act.

Under this scheme, students will be granted FREE technical education for a period of five years, provided that they attend regularly; that they receive instruction for the first two years in the compulsory subjects laid down by the Department, viz. : English, Drawing, and Arithmetic, or some branch of Mathematics; that their conduct is satisfactory; and that they pass the necessary examinations at the end of each year.

**NOTE.**—No pupil who has attended for two years as a Junior Free Place Pupil at a District High School or at a Secondary School is eligible to hold a JUNIOR FREE PLACE at a Technical School. Nevertheless pupils who have completed their two years as JUNIOR Free Place pupils at a Secondary or District High School, and who have passed the examination for a SENIOR Free Place, are eligible for FREE admission to the Technical College.

In special cases, where it is shown to the Minister's satisfaction that the Free Pupil is unable to obtain at the Secondary School or District High School he is attending, instruction in the subjects required for the course of study he desires to follow, such Free Pupil may, with the consent of the Minister previously obtained, continue his Free Place for the unexpired period thereof at a Technical School.

**PAYING STUDENTS.**—A student not eligible for FREE tuition under one of the above clauses, may be admitted to the College on payment of a sum of £5 per annum, provided that the Director is satisfied that the student in question is likely to profit by the instruction provided.

The minimum period for which any student can be enrolled is *one year*, and parents will be required to enter into a **BOND** that in the event of their son or daughter not making a full year's attendance at the College from any cause except illness, they will pay to the Board a sum of money equivalent to the loss in capitation sustained by the non-attendance of the pupil at the class.

Should the number of applicants exceed the accommodation, the Board reserves the right to select the students in any manner it may deem advisable.

#### FORMS OF APPLICATION.

An application Form will be found at the back of the Prospectus. Additional forms can be obtained from the College in Wellesley Street East.

#### FREE RAILWAY PASSES.

Free Place Students who require them will be provided with Free Railway Passes to travel to and from College.

#### SCHOOL TERMS AND HOLIDAYS.

The School Year is divided into two terms, and the holidays are as follows:—One week at Easter, a fortnight at Midwinter, a week at Michaelmas, and nine weeks at Midsummer.

**The Session Commences Monday, February 17th, 1913.**

### RULES OF THE COLLEGE.

#### 1. SCHOOL HOURS.

The classes will be open daily on five days of the week from 9.15 a.m. to 12 noon, and from 12.45 p.m. to 3.30 p.m. Saturday is a whole holiday.

#### 2. COLLEGE UNIFORM.

All boys must wear the College uniform, consisting of blue serge shirt and knickers, green tie and black stockings with green tops. They must all provide themselves with the College cap or hat and badge. The badge is of gilt enamel, and is sold at the College at 1s 6d; it is practically indestructible, and will last during the whole of the student's stay at the College. In the case of the boys, the badge is worn on a dark green cloth cap, the cost of which is two shillings, or on a straw hat, which can be supplied for four shillings and sixpence without the badge. The girls must wear the badge on a white straw sailor hat with a dark green band, which is sold at five shillings, or on a green cloth Tam-o'-Shanter cap, which costs three



The Six Senior Cadets of the College—L. Mills, G. Buckworth, B. Dickson, R. Alexander, W. Stewart and L. Morgan—who won the Campbell Vase for Shooting, 1912.

shillings and ninepence; they must also wear a blue serge dress with green band and black hair ribbon.

The caps and ties must be procured at the College in order that a uniform colour may be used throughout the School; if these articles are purchased elsewhere they will not be accepted as the College uniform.

During their first year's attendance at the College, all girls cut out and make for themselves summer dresses.

### 3. CADETSHIP.

Under the New Zealand Defence Act, 1910, all boys will be required to belong to the College Cadet Corps.

Last year (1912) the Campbell Vase, which is awarded annually for competition to the Senior Cadet Company in the Auckland Province putting up the best shooting record, was won by the Technical College Cadets (24th Company) under Captain Urquhart with 906 points, the second Company of the College (84th Company) under Lieutenant Burley being runners-up with a score of 875 points.

### 4. HOME LESSONS, REPORTS, ETC.

Home lessons are set each day. The subjects and the amount of homework for each day are shown on the students' time-tables, which parents are requested to examine carefully. No excuse, except that of illness, will be accepted. Parents are earnestly requested to co-operate with the Director by encouraging regular and punctual attendance, and by seeing that the home lessons are carefully prepared. It is when such co-operation takes place that the best results are obtained.

A detailed report on the work and conduct of each pupil is sent home at the end of each term.

Students who are NOT doing satisfactory work are reported to their parents at the end of each month.

### 5. JEWELLERY.

Girls will not be allowed to wear at the College rings, bracelets or jewellery of any description, except a brooch.

### 6. LUNCHEON.

Pupils must take their luncheon in the classrooms set apart for the purpose, and they will not be allowed to leave the College premises during the luncheon interval except on the written request of parents.

Luncheon may only be brought in a sandwich tin or serviette; PAPER packages are not permitted.

## 7. LATENESS, ABSENCE, ETC.

Absence, lateness and neglect of work can only be excused on the special written request of parents, assigning satisfactory reasons. Verbal excuses are not accepted. When a pupil returns to the College after having been absent, a WRITTEN EXCUSE FROM THE PARENT must be brought.

Students are not allowed (except in cases of sudden illness) to leave the College during school hours unless a satisfactory reason, in writing, is brought from a parent. Students who are allowed to go home during school hours on account of illness are required to bring a note from a parent on return to the College, stating the hour of arrival home, and the reason of such early arrival.

## 8. INFECTIOUS AND CONTAGIOUS DISEASES.

No pupil coming from a house in which there is any infectious disease will be permitted to attend the College, nor will any pupil be allowed to return to College on recovery from illness of a dangerous character, without a medical certificate.

Table, showing period of isolation and of quarantine required in the case of the following diseases :—

DISEASE.	Period of Isolation required after suffering from the Disease.	Quarantine after accidental exposure to infection, if disinfection be carried out at the commencement of Quarantine.
Chicken Pox —	Until every scab has fallen off ...	For 19 clear days
Diphtheria —	For at least 4 weeks ... ..	For 14 days
German Measles —	For at least 10 days ... ..	For 22 clear days
Measles —	For at least 3 weeks after rash has gone ... ..	For 19 clear days
Mumps —	1 week after the subsidence of all swelling ... ..	For 25 clear days
Scarlet Fever —	For at least 6 weeks ... ..	For 7 clear days
Small Pox —	Until every scab has fallen off ...	For 20 clear days
Whooping Cough —	For at least 5 weeks ... ..	For 14 clear days

## 9. BOOKS, INSTRUMENTS, ETC.

All books, instruments, etc., required by the pupils must be provided by the parents. Pupils are requested not to leave any of their books, etc., lying about the College premises; the Board can take no responsibility for the custody of articles so left.



Colonel Logan presenting the Campbell Vase and Medals which were won this year by the 24th Company of the College, under Capt. Urquhart.

## 10. EXTERNAL EXAMINATIONS.

Students are required to sit for such external examinations as may be decided upon by the Director.

## 11. SPORTS.

Every encouragement is given to the students of the College to take part in sports and games such as hockey, tennis, and basket ball for the girls, and football, cricket, etc., for the boys. All students are requested to contribute annually towards the sports' fund a sum of 3s, which is paid in two instalments of 1s 6d each, one at the beginning of the first term in February, and the other at the beginning of the second term in July. It may be mentioned that last year (1912) the girls of the College again won the Junior Cup for Hockey, having for the second year in succession headed the list of winning teams in the Junior Ladies' Hockey Championship.

## COURSES OF STUDY.

The following courses of study have been arranged for the 1913 session :—

### COMMERCE.

**JUNIOR COURSE.**—This course is intended to provide a Preliminary Commercial Training for boys and girls who have just completed their preliminary school education, and who propose, at the end of two years, to either (1) enter business, or (2) take up an advanced Commercial Course at the College.

#### FIRST YEAR.

English Composition and Literature.  
 Practical Mathematics.  
 Commercial Correspondence and Précis.  
 Commercial Geography.  
 Cookery and Needlework (for girls).  
 Drawing and Design.  
 Business Methods and Office Routine.  
 Bookkeeping.  
 Elementary Science.  
 Shorthand and Typewriting.  
 Military Drill (for boys).  
 Physical Culture (for girls).  
 Woodwork and Metalwork (for boys).

#### SECOND YEAR.

English Composition and Literature.  
 Practical Mathematics.  
 Commercial Correspondence and Précis.  
 Commercial Geography.  
 Cookery and Needlework (for girls).  
 Drawing and Design.  
 Business Methods and Office Routine.  
 Bookkeeping.  
 Elementary Science.  
 Shorthand and Typewriting.  
 Military Drill (for boys).  
 Physical Culture (for girls).  
 Woodwork and Metalwork (for boys).

**SENIOR COURSE.**—This course is intended for students who have received a sound preliminary training such as is given in the Junior Commercial Course of the College. The course extends over three years, the subjects taken in the **FIRST YEAR** being as follows :—

English Composition and Literature.  
 Practical Mathematics.  
 Commercial Correspondence and Précis.  
 Commercial History.  
 Dressmaking (for girls).  
 Metalwork (for boys).

Bookkeeping and Accountancy.  
 Business Methods and Office Routine.  
 Drawing and Design.  
 Shorthand and Typewriting.  
 Military Drill (for boys).  
 Physical Culture (for girls).

## DOMESTIC SCIENCE.

It is said that "The hand that rocks the cradle rules the world," and there is no doubt a great deal of truth in the statement. At all events, it is most important that our girls should grow up to be "womanly women," and take an intelligent interest in the home and its duties. The Domestic Science Course, which was instituted at the beginning of 1908 at the College, is designed to supplement the home training which girls usually receive, and, whilst their general education is not lost sight of, to better fit them for the duties of the home-maker. The Course, therefore, aims at giving the pupil a sound foundation in the different branches of household work, such as Cookery, Needlework, Laundrywork, etc., and at awakening her interest in the important question of sound bodies, wholesome dwellings and real homes. The Course will prove invaluable to girls, no matter what their positions in life may be, and particularly to girls who intend to become Nurses, Housekeepers, Dressmakers or Milliners.

### FIRST YEAR.

Cookery.  
Commercial Handwriting.  
Drawing and Design.  
Dressmaking and Needlework.  
English Composition and Literature.  
Housewifery.  
Human Physiology.  
Hygiene.  
Laundrywork.  
Practical Mathematics.  
Physical Culture.  
Science of Daily Life.

### SECOND YEAR.

Cookery.  
Commercial Handwriting.  
Drawing and Design.  
Dressmaking and Needlework.  
English Composition and Literature.  
Housewifery.  
Human Physiology.  
Hygiene.  
Millinery.  
Practical Mathematics.  
Physical Culture.  
Science of Daily Life.

## SCIENCE AND TECHNOLOGY.

In order that boys who have passed through the Public Schools may receive a thorough preliminary training which will fit them at the end of two years either (1) to enter upon their life's occupation at some particular trade or profession, such as Mechanical, Civil or Electrical Engineering, Cabinetmaking, Building, Plumbing, etc.; or (2) to continue their technical training at the College in the Advanced Specialised Technical Courses, the following Two Years' Course of Study has been drawn up:—

English Composition and Literature.  
Practical Mathematics.  
Handwriting and Commercial Correspondence.  
Practical Geometry.  
Drawing and Design.

Mechanical Drawing.  
Practical Chemistry.  
Practical Mechanics and Heat.  
Manual Training in Metal.  
Manual Training in Wood.  
Military Drill.

## AGRICULTURE.

This course, which was instituted at the College for the first time last year, has already proved an unqualified success. It is intended specially to attract the boy *from* the farm, and also the boy *from the town* who desires to make his living on the land. It will meet the requirements of all who intend to get a living from the land, whether as farmers, farm managers, creamery men, market-gardeners, nurserymen or fruitgrowers. The scope of the work covers those subjects that will prove of direct practical value to the students, when, having finished the course, they return to the land to carry on their work in life. The College aims to teach the joy of farm life as well as the proper scientific methods and practices. It tries to instil into its students that enthusiasm for the work on the farm that will cut the dull edge of drudgery by which haphazard farming is characterized; it endeavours to teach its students "how to make the most of farm life."

Work in the field is supplemented by extensive laboratory practice, elucidating, *inter alia*, the principles involved in the various operations of tillage, the application of manures, and the control of insect and fungoid diseases. Instruction, moreover, is given in Agricultural Arithmetic and Account-keeping, as well as in Woodwork and Metalwork, all of which have obviously a direct bearing on the main subject.

The utilitarian subjects are so combined with cultural studies that students will find that the course will greatly help to mould their lives into well-balanced citizenship.

The various workshops, laboratories, etc., of the College are so equipped as to provide thoroughly sound instruction, and great stress will be laid on outside field experiments.

### FIRST YEAR.

English, including Literature and Civics.  
Practical Mathematics.  
Agriculture.  
Agricultural Chemistry.  
Bookkeeping.  
Metalwork, including Blacksmithing.  
Mechanical Drawing.  
Carpentry.  
Insects and Plant Diseases.  
Military Drill.  
Dairying.

### SECOND YEAR.

English, including Literature and Civics.  
Practical Mathematics.  
Agriculture.  
Agricultural Chemistry.  
Bookkeeping.  
Metalwork, including Blacksmithing.  
Mechanical Drawing.  
Carpentry.  
Insects and Plant Diseases.  
Military Drill.  
Dairying.  
Farm Buildings.  
Concrete Work.  
Stock Judging.

## MECHANICAL AND ELECTRICAL ENGINEERING.

The Full Course of Instruction in Mechanical or Electrical Engineering extends over a period of four years, and students completing the course and passing the various examinations will be granted the Associateship of the College (Assoc. A.T.C.). Before being admitted to either of the Engineering Courses, students will require to satisfy the Director that they have received a sound preliminary scientific education, such as is given in the Two Years' Science and Technological Course of the College, above.

The Engineering Department is well equipped, and the practical work will embrace Engine Building, Lathe Making, etc. Every endeavour will be made to impart the practical knowledge to specially fit students for important positions in Engineering Workshops.

The FIRST YEAR'S Course in both Mechanical and Electrical Engineering embraces the following:—

Applied Mechanics.

Chemistry.

English.

Heat Engines.

Magnetism and Electricity.

Machine Construction and Drawing.

Patternmaking.

Physics.

Practical Geometry.

Practical Mathematics.

Turning and Fitting.

Drawing and Design.

Military Drill.

GEORGE GEORGE,

*Director of Technical Education and  
Manual Training.*

WELLESLEY STREET EAST,

AUCKLAND.

January 8th, 1913.

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Waikato Times Printing Works, Hamilton.

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