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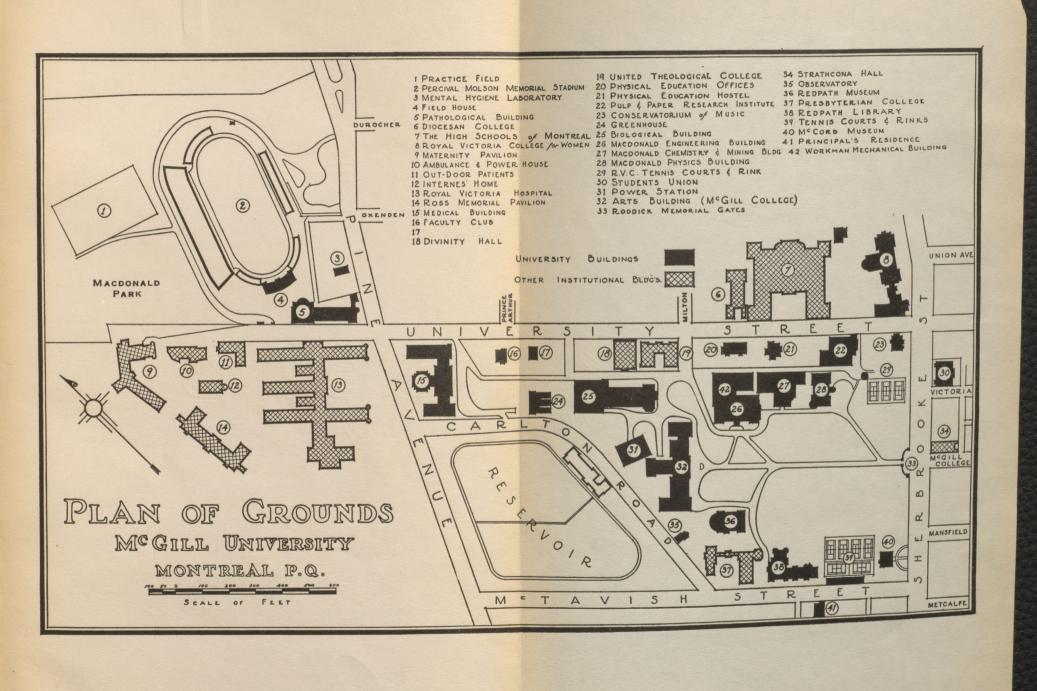
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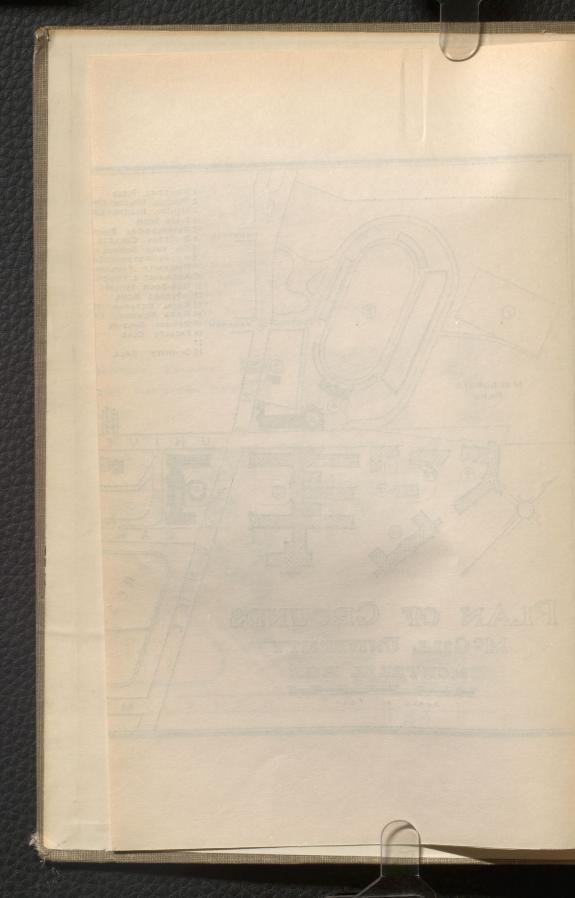
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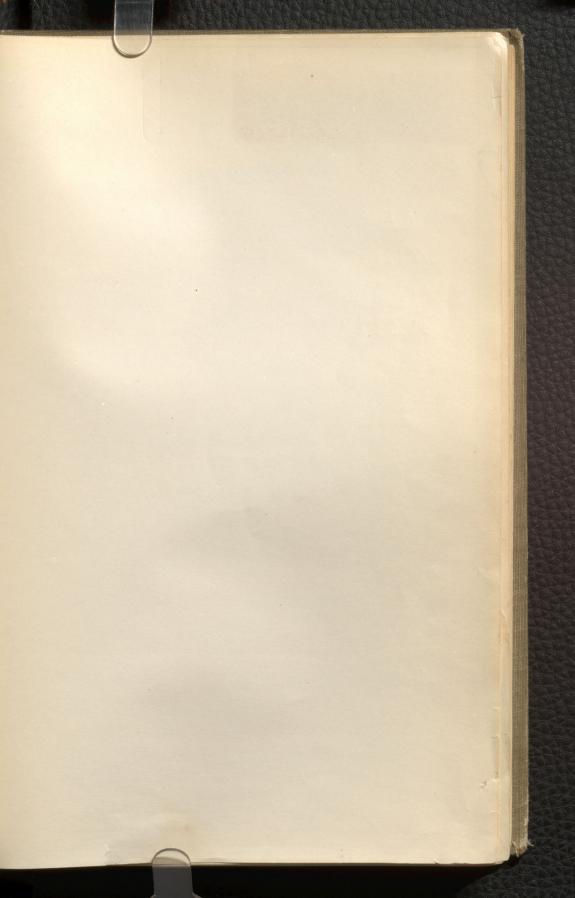




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CALENDAR

FOR THE SESSION 1935-36

MONTREAL

1935

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	-
	PAGE
Academic Dress	480
Academic Year	65
Accountancy, Courses in	192
Diploma of Licentiate in	
For Matriculation	190
Accountancy Diploma Course	85
Accountancy Diploma Course	203
Fees. Accounting and Auditing. 203,	211
Accounting and Auditing	204, 209
Accounting, Elements of	209
Accounts, Theory and Practice of	192
Adams (F. D.) Scholarship.	
Administrative Officers.	376
Admission Age of	21
Admission, Age of	97
Admission, Application for 95,	212, 276
Admission from Other Universities	95
Admision to:—	
Advanced Standing	96 181
Agriculture	175
Architecture	212
Arts and Science.	07 00
Commerce	97, 98
Pentietry 4	
Dentistry	327
Engineering	212
Graduate Nurses	455
Graduate Studies	371
Liw	346
Lbrary School	439
Macdonald College.	475
Medicine	
Music.	275
Physical Education	
Rayal Victoria College	443
Ryal Victoria College.	177
Study and Practice of Law in Quebec.	354
Sludy and Fractice of Medicine	275
Advanced Courses in Arts and Science	102
AUVAILED STATISTICS IN Engineering for Craduates in Auto-	
Science	221
Advancement from Year to Year in Arts and Science	104
Advises in Arts and Science	98
Allillated Colleges	
	68
Affiliated Theological Colleges	68, 216
Affiliated Theological Colleges Affiliated Theological Colleges Scholarships	69
Affiliation with other Universities	94
Affiliation with other Universities	69
Age of Admission	97
agricultural bacteriology.	395
agriculture, Faculty of	475
agroudilly, Graduate Courses in	393
diexallier (Charles) Scholarship	167
Mexanira Hospital	321
Mexallira Hospital Scholarship	
Algebra. See Mathematics.	457
Allan (Dr. J. H. B.) Scholarship	900
J D. J Octobarship	286

	PAGE
	167
Allan (Margaret Jane) Scholarship	
	324
	219
	89
Ami (Dr. H.) Exhibition	
Anatomy, Courses in:— " " Dentistry	334
	394
" " Graduate Faculty	289
	338
	339
Anaesthesia, Local Ancient History	125
Anglin Bursary	220
	218
Animal Nutrition and Breeding	394
Application for Admission. See Admission.	
1 1 Machanica See (1911, F. M. 91 Meering.	
Applied Theory of Accounting and Auditing	209
Approved Lodgings. See Board and Lodging.	
A 1 1	
Commission	225
Description and Courses	247
C-11 of	212
Commor Work in	242 96
A J Coiongo Faculty of	457
Association of Registered Nurses Scholarship	29
Athletica Roard University	162
Athletics	92
Atholstan (Lord) Scholarship	440, 457
Atholstan (Lord) Scholarship	110, 10.
Bachelor of Arts, Engineering, etc. See Degrees, Regulations for	110
Racteriology (Ollrses in Arts and Science	113
" Dentistry	335
" " Graduate Faculty	395 296
" " Medicine	354
Bar Regulations, Province of Quebec	166
Barclay Scholarship	219
Baylis Scholarship	93
Beatty, (Sir Edward) Scholarships	90
Bedford Graduates' Society's Scholarship. Biochemistry, Courses in Arts and Science	115
Biochemistry, Courses in Arts and Science	336
" " Graduate Faculty	396
" " Medicine	293
Pi-law Matriculation	85
Rnai Brith Bursaries	173
Dd of Covernore	23, 67
Peard and Lodging	279, 370
In the Graduate Women's Hostel	101
In Royal Victoria College for Women	178
Botany, Courses in Arts and Science	116
" " Graduate Faculty	396
" Matriculation	74

	PAGE
British Association Exhibition	
British Association Exhibition	217
British Association Medal.	220
Browne (A. A.) Fellowship. Bruce (Robert) Bursaries and Scholarships. 92,	285, 378
Bruce (Robert) Bursaries and Scholarships92.	166, 217
buildings, Medical	318
Bursaries. See Scholarships.	
Business Finance and Accounting	209
Business Organization, Course in Busteed (Edwin Bottograf) Scholorakin	194
Busteed (Edwin Botsford) Scholarship	
- detect (Edilli Botslord) Scholarship	349
C-1-1 . C P	
Caledonian Society Exhibition	218
Calendar of Meetings, etc	65
Canadian Institute of Mining and Metallurgy Loan Fund	221
" " Medal	221
Calendar of Meetings, etc Canadian Institute of Mining and Metallurgy Loan Fund " " Medal " Medal"	219
Canadian Medical Institute Prize	285
Canadian Officers' Training Corps.	478
Canadian Pacific Railway Company's Scholarship	
Caution Money	93, 217
Caution Money. Certificates Accepted for Entrance.	99
Changing Courses	71, 83
Changing Courses. Chapman (Henry) Gold Medal.	103
Chapman (Henry) Gold Medal	174
Chapman (nenry) Prize	174
Chartered Accountants, Course for	203
Chartered Accountants' Course, Fees	211
Chartered Accountants' Society Prize	185
Chemical Engineering, Curriculum	230
Chemical Engineering Department	251
Chemical Industry Society's Prize	219
Chemistry, Courses in Arts and Science	
" " Commerce	118
" " Engineering	194
" " Engineering	251
" " Graduate Faculty	397
" Matriculation	74, 86
Children's Mamarial Hamital	175
Children's Memorial Hospital. Children's Memorial Hospital Scholarship.	321
Children's Memorial Hospital Scholarship	457
CHIISLIE SLOTEF CHADTER SCHOLARShip	93
Civil Engineering, Curnculum	232
Department and Courses	255
IVII Engineering, Graduate Courses in	402
CIVII Law	352, 353
IVII Procedure	353
lass of 1899 Fund	221
lasses of Students	96, 371
Classics, Courses in Arts and Science	
" " Graduate Faculty	122
	403
Arts and Science	
	103
Accountancy Diploma Course	206, 208
Dentistry	333
Engineering	222
Graduate Faculty	383
Graduate Nurses	458
Law.	351
Medicine	992

	PAGE
Clinical Instruction in Dentistry	344
Compate Subjects	381
Callages (Affliated)	68
Colleges (Incorporated)	68
Commerce School of	$\frac{180}{202}$
Commerce Time Table	
Commercial Law	186
Commercial Society Loan Fund	30
Committees of Governors and the Senate	26
Comparative Law	353
Conflict of Laws, Course in	353
Conservatorium of Music. See Faculty of Music.	
Constitution of the University	67
Constitutional Law	352, 353
Cooper (James) Fellowships	$\frac{285}{210}$
Cost Accounting	210
Cost of Education. See Expenses.	
Courses for Degrees and Diplomas. See Degrees, Regulations for	
and Diplomas, Regulations for. Courses of Lectures. See Lectures in.	
Criminal law	352, 353
Criminal Procedure. Crossley (Ethelwyn M.) Scholarship.	352, 353
Crossley (Ethelwyn M.) Scholarship	440
Crowe (Harry I.) Scholarship	400
Crown and Bridge Work	337
2 C 1027 20	65
Dates for Session 1935-36	
Dawson (Sir William) Exhibition	
Dawson (Sir William) Fellowship.	373
Degrees Granted by the University	480
Degrees in Arts and Science	97
Degrees in Engineering	222
Degrees in Graduate Faculty	372
Degrees in Law	350
Degrees, Regulations for:—	225
Bachelor of Architecture	COLUMN TEL
" "Civil Law	
" "Commerce	. 187
" Engineering	
" "Household Science	
" "Library Science	
" " Music	
" "Science	
Science in Agriculture	
Doctor of Civil Law	
" " Literature	
" " Medicine	Annual Control of the
" "Music	
" "Philosophy	
" "Science	
Master of Arts	
" "Civil Law	. 350, 386

Degrees, Regulations for (Cont'd.):—	PAGE
Master of Commerce	387
" Engineering	386
" Science	385
Delta Upsilon Scholarship	373
Dental Anatomy.	338
Dental Council, Dominion	328
Dental History, Ethics and Office Management	338
Dental Instruments	330
Dental Jurisprudence.	339
Dental Metallurgy	340
Dental Pathology	339
Dental Surgery	340
Dentistry, Faculty of	326
Dentistry, Faculty of	327
Requirements for Degree.	333
Department of Physical Education	161 477
Dermatology	
Descriptive Geometry.	303
Diocesan College	258
Diocesan College	69
Diploma for Graduate Nurses	
" of Licentiate in Accountancy	455
" " Licentiate in Accountancy	190
" Licentiate in Music	. 364
I hysical Education	450
" Public Health	316
for Teaching	127
Directory of Students	483
Discipline Distinction in General Course in Arts and Science.	214
Distinction in General Course in Arts and Science	108
Dominion Dental Council	328
Dominion Registration for Medical Students.	288
Douglas (Dr. James) Bursaries.	219
Douglas (Dr. James) Fellowship in Mining Engineering	373
Douglas (Dr. James) Fellowship in Pathology	285
Drake (Joseph Morley) Prize.	284
Drawing, Department and Courses.	258
Drawing, for Matriculation.	75
Drummond (Guy) Memorial Scholarship	375
Economics, Courses in Accountants' Course	206
" " Arts and Science	125
" Commerce	195
" Engineering	260
"Graduate Faculty	404
Education, Courses in Arts and Science	127
" " Graduate Faculty	405
Elder (John Munro) Prize	. 285
Electrical Engineering, Curriculum	234
Department and Courses	259
Graduate Courses in	406
Embryology. See Histology.	100
Emeritus Professors	33
Employment, Part-time	175
Engineering Curriculum	224, 228
Engineering, Faculty of	212
0	414

viii

" Dentistry

183

329

< ·

ix

	PAGE
Fees in Engineering	214
" " Graduate Faculty	379
" "Callet Name	
" "Graduate Nurses	459
" Household Science	476
" "Law	348
" "Library School	440
" " Medicine	
Wiedicine	277
" Wiusic	358
" "Physical Education	447
" "Royal Victoria College	
Trojui victoria conege	99, 178
Fellowships for Graduates	373
Fellowships in Medicine	285, 378
Fellowship in Mining	373
	010
Field Schools:—	
In Engineering	242
In Metallurgy	267
In Mining	270
In Surveying	273
Final Examinations in Arts and Science	104
Fish (Nathan) Scholarship	167
Forbes (Donald) Memorial Prize	219
Forbes (Mildred Hope) Memorial Scholarship	
Forbes (Mildred Hope) Memorial Scholarship	458
Forsyth (Dora) Prize	175
Forsyth (Jeanie) Prize	285
Forsyth (Robert) Prize	219
Foundation of the University	.67
Of the Faculty of Dentistry	326
Of Macdonald College	475
Of the Peval Victoria Callege	
Of the Royal Victoria College	176
French, Courses in Arts and Science	154
" " Commerce	197
" " Graduate Faculty	433
Watticulation	76, 86
French Summer School	434
Frost (George Henry) Loan Fund	221
Troot (George Tierry) Board I and	221
Garrow (Dr.) Scholarship	458
General Courses for B.A	107
General Courses for B.Sc	109
General Degrees	102, 109
Genetics Courses in Arts and Science	133
" Courses in Graduate Faculty	412
Courses in Graduate Faculty	The state of the s
Geodesy	272
Geodesy	134
" " Engineering	261
" " " Craduata Faculty	
Graduate Faculty	413
Geometry. See Mathematics.	
Geometry, Descriptive	258
Cormon For Matriculation	
German—For Matriculation	77, 86
Germanic Languages, Courses in Arts and Science	136
" " Commerce	198
" " Graduate Faculty	415
Oracidate Lacutey	IIU
Governing Body	23

	PAGE
	67
Government of the University	174
Governor-General's Silver Medal	373
Governors, Board of	23
Gowns	480
Graduate Courses in Medicine	316
Graduate Fellowships	373
Graduate Nurses, School for	455
Graduate Students	369
Graduate Studies and Research (Faculty of)	369
Graduate Women's Hostel	461
Graduates' Society	32
Greek, Courses in Arts and Science	122
" " Graduate Faculty	403
" Matriculation	77, 87
Gynæcology	311
annual har seal of single-	
Harrington (Dr. B. J.) Research Fellowship	373
Health Service	95
Hersey (Dr. Milton L.) Prize	218
High School Diploma	127
Higher Diploma in Physical Education	454
Hils (Joseph) Prize	284
Histology and Embryology, Courses in Arts and Science	139
" " Medicine	290 125
History, Ancient. History, Courses in Arts and Science	139
" " Graduate Faculty	415
" Matriculation	78, 87
History of the Faculty of Dentistry	326
" "Royal Victoria College	176
" " University	67
History of Medicine, Course in.	307
Hoare (Walter J.) Scholarship.	286
Hodgson (Sidney J.) Exhibitions	
Holmes Gold Medal	284
Honour Courses for B.A.	105
For B.Sc.	
Honour Degrees	
Hoods	480
Horticulture, Courses in.	417
Hospitals	319
Household Science.	475
Houston Scholarship.	166
Hunt (Dr. T. Sterry) Scholarship.	373
Hygiene, Courses in	298
riygicine, Courses III	290

Immunity. See Bacteriology. I.O.D.E. Bursaries. I.O.D.E. Scholarships. Incorporated Colleges. Industrial Management Instruments, Dental.	PAGE 90, 217 376 68 210 330
Interim Tests Intermediate Diploma Scholarship International Law, Course in Italian for Matriculation Italian Government Scholarship	103 90 352 79 286, 377
Jackson (Slater) Prize Jacobs (Joseph H.) Prize Jenkins Brothers' Scholarship. Johnson (Phelps) Prize. Jones (Hon. Robert) Scholarship. Junior Matriculation Examination Jurisprudence, Dental	285 185 220 218 217, 219 70 339
Language Examination (Ph.D.) Latin, Courses in Arts and Science " " " Graduate Faculty " Matriculation. Law (Clara) Fellowship Law for Engineers. Law, Faculty of Law in the School of Commerce.	389 123 403 79, 87 286 260 346 195
Lectures in:— Architecture Arts and Science Commerce Dentistry Engineering Graduate Faculty Graduate Nurses Law Library School Medicine Physical Education Legal History, Course in Leroy Fellowship Library, Dental Library, Law Library, Medical	247 113 192 334 251 393 462 352 461 289 450 352 373 345 351 322

xii

	PAGE
Library, Osler	323
Library School.	439
Library. The University	479
Licence Requirements in Dentistry	327
" " Medicine	287
Licentiate in Accountancy, Diploma of	190
Licentiate in Music, Diploma of	364
Limited Undergraduates	97
Ellitted Olidergraduates	01
Loan Funds:—	
In Commerce	186
In Engineering	221
In the Royal Victoria College	178
University Loan Fund	175
Local Anæsthesia	339
Local Centres, Music	365
Lodgings. See Board and Lodging	909
Logan Gold Medal	174
Lyman (Hannah Willard) Exhibition	171
Byman (Haman Windra) Exhibition	1,1
McCall (James Darling) Scholarship	165
McCrae (John) Fellowship	285
Macdonald College	475
Graduate Students	372
Macdonald College Alumni Association Scholarship	374
Macdonald (Sir William) Scholarships. Macdonald (Sir William) Travelling Scholarship in Law	91, 170
McGill College	349 96
Macintosh (Annie) Prize	174
MacKay (H. M.) Memorial Scholarship	220
Mackenzie Scholarships	166
McLennan (Hugh) Scholarship	374
Macnaghten (Chester) Prize	175
MacRae (Isabella) Scholarship.	93, 217
Major and Minor Subjects in the Faculty of Graduate Studies. Marceau (Ernest) Prize	381
Marks, Classification of. See Classification.	218
Marine Insurance	198
Maritime Law	353
Master of Arts, Engineering, etc. See Degrees, Regulations for	
Materia Medica (Dental)	339
Mathematics, Courses in Accountants' Course.	
" " Arts and Science " Commerce.	142 199
" Engineering	262
" " Graduate Faculty	418
" Matriculation	79, 88
Matriculation:—	The second second
Junior Matriculation	70
Senior Matriculation	70

INDEX	xiii
	PAGE
Mechanical Engineering, Curriculum	236 263
Department and Courses	420
Medals in Arts and Science	174
" " Commerce	185
" " Dentistry	331
" "Engineering	220
" " Graduate Faculty	373
" "Gymnastics	477
" " Law	349
" " Medicine	284
" School for Graduate Nurses	458
of Physical Education	449 288
Medical Council Registrars	95
Medical Examination	322
Medical Societies.	324
Medicine, Courses in	302
Medicine, Faculty of	275
Medicine, Requirements for licence to Practise	287
Metallurgical Engineering, Curriculum	238
Department and Courses	266
Graduate Courses in	420
Metallurgy (Dental)	340
Microscopes	278
Mid-Sessional Examinations	103
Military Training	478 174
Mills (Major Hiram) Gold Medal	170
Mills (Major Hiram) Scholarship	134
" Engineering	261
" Graduate Faculty	413
Mining Engineering, Curriculum	240
Department and Courses	269
Graduate Courses in	421
Field School	270
Minor Subjects in the Faculty of Graduate Studies	381
Molson (Anne) Gold Medal	174 349
Montreal Bar Association Prize	331
Montreal Dental Club Gold Medal	321
Montreal General Hospital	320
Montreal General Hospital Alumnæ Scholarship	458
Montreal Light, Heat & Power Company's Prize	218
Morris (Alexander) Exhibition	349
Mount Royal Dental Society's Prizes	331
Moyse Travelling Scholarships	375
Municipal Law	353
Museums	345
Music Examinations	362 357
Music, Faculty of	80
Music for Matriculation	00
Narcissa Farrand Scholarship	90
National Research Council Scholarships	375

	Paris
	PAGE
Natural Science	
Neurology and Neurosurgery	
Notaries	356
Nurses, School for Graduate	455
Nutrition, Animal	394
Nutting (Charles Albert) Prize	350
Obstetrics	311
Office Attendance in Law	351
Officers of Instruction	35
Officers' Training Corps.	478
Officials, University	21
Oliver (Allen) Fellowship.	374
Oliver (Allen) Gold Medal	174
Operative Dentistry	341
Ophthalmology	313
Orthogodia Surgery	342
Orthopedic SurgeryOsler Library	308
Osler Society	323 325
Oto-Laryngology	314
Ottawa Valley Graduates' Society's Exhibition	89
Daniel State of Society & Exhibition	03
Padiatrics	000
Pædiatrics	302
" Graduate Faculty	134 413
Parasitology	424
Partial Students	97, 357
Pathological Chemistry	293
Pathology in Dentistry	339
In Medicine	294
In the Graduate Faculty	425
Pathology, Plant	431
Pennallow Prize	174
Peterson Memorial Prize	175
Peterson Memorial Scholarships	167
Pettes, Mrs. N. (Narcissa Farrand) Scholarship	90
Pharmacology in Dentistry	335
in Medicine	300
" in the Graduate School	425

XV

112

PAGE 218 Phelps Johnson Prize..... Philology, Comparative..... 403 Philosophy, Courses in Arts and Science..... 144 Graduate Studies..... 426 Physical Education for Women..... 163 Physical Education, School of..... 443 Physical Examination..... 95 Physical Geography..... 81 Physics:-Courses in Arts and Science..... 147 Engineering..... 271 200 Commerce..... 426 the Graduate Faculty..... 81, 88 For Matriculation..... Physiology, Courses in Arts and Science..... 150 343 Dentistry..... Graduate School..... 430 Medicine..... 291 431 Plant Pathology..... Political Science, Courses in Arts and Science..... 125 Commerce..... 195 " u Graduate Faculty..... 404 218 Porter (Dr. J. B.) Prize..... Porter (Dr. J. B.) Scholarship..... Pre-Professional Courses in Arts and Science..... 112 274 Prerequisite Subjects in Engineering..... 69 Presbyterian College..... Presbyterian College Scholarships..... 94 298 Preventive Medicine..... Primary Prize in Medicine..... 284 174 Prince of Wales Gold Medal..... 222 Privileges for Holders of Degrees in Engineering..... 174 Prizes in Arts and Science..... 217 In Engineering..... In Commerce..... 185 331 In Dentistry..... 477 In Gymnastics..... 349 In Law..... 440 In the Library School..... 284 In Medicine..... In the School for Graduate Nurses..... 457 449 In the School of Physical Education..... Probation, Regulations in Arts and Science..... 103

Professional Faculties, Entrance to.....

xvi

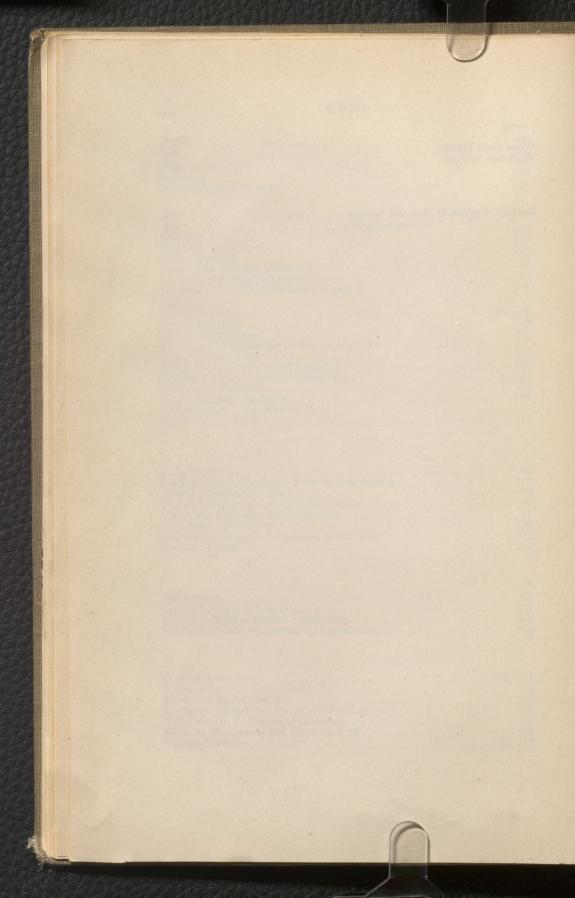
	PAGE
Professors, List of	35
Promotion in Arts and Science	104
" " Dentistry	333 274
" " Medicine	281
Prosthetic Dentistry	344
Prosthetic Treatment of Cleft Palate	343 287
Provincial Registration for Medical Students	327
	303
Psychiatry Psychology, Courses in Arts and Science	151
" " Commerce " Graduate Faculty	200 432
" Medicine	292
Public Health	298
Public Health, Diploma of	316
P. 1. 11.0 P. 1. 01.11.1	
Reciprocity with Great Britain (Medicine)	288
Redpath (Jane) Scholarship	165 166
Registered Nurses' Scholarship	457
Registrars of Provincial Dental Councils	327
Registrars of Provincial Medical Councils.	287
Registration (University) 98, 182, 213, 276, 329, 347, 371, 43 Registration Figures	9, 447
Research Associates	383
Research, Social See Social Research.	
Research Council Scholarships (National)	375
Residence. See Board and Lodging. Resident Study in Graduate Faculty	381
Rhodes Scholarships.	376
Robertson (Louis) Prize	218
Roman Law, Course in	352
Romance Languages. See French. Ross (P.S.) Exhibition	0 217
Rowat (Thomas Alexander) Scholarship	9, 217 350
Royal Architectural Institute of Canada Medal.	221
Royal Bank Fellowship in Commerce.	185
Royal Commissioners for 1851 Scholarship	375
Royal Edward Institute. Royal Society of Canada Fellowships.	321 376
NOVAL VICTORIA College for Women	176
Royal Victoria College Scholarships	91
Royal Victoria Hospital	320
Royal Victoria Hospital Scholarships.	320 458
	100
Scholarships:—	
Arts and Science	5, 178
Commerce	185
Engineering	217

Scholarships (Cont'd.):—	PAGE
Entrance	89
General Regulations	89, 165
Graduate	373
Graduate Nurses	457
Law	349
Library School	440
Medicine. School, The Library.	284
School of Architecture.	439 212
School of Commerce	180
School for Graduate Nurses	455
School of Household Science.	475
School for Teachers	475
School of Physical Education	443
Scientific Management, Course in	194
Scott (Barbara) Scholarship	165
Scott Exhibition	218
Second Year Scholarships in Arts and Science	167
Senate Senior Matriculation Examination	24
Shakspere Gold Model	82
Shakspere Gold Medal Sharp (F. W.) Prize in Commerce	174
Shaw (Flora Madeline) Memorial Fund.	185 457
Shriners' Hospital Scholarship.	458
Sigma Alpha Mu Fraternity Bursaries	173, 377
Silver (Edith) Memorial Scholarship	92
Snyder (Charles William) Scholarship	166
Social Research, Department of	438
Social Research Council	30
Social Research Fellowships	377, 438
Societies, Engineering.	223
Societies, Medical Society of Chartered Accountants' Prize	324
Society of Chartered Accountants Prize.	185
Sociology, Courses in Arts and Science.	219 158
" Graduate Faculty	434
Spanish	200
For Matriculation	81, 88
Spanish Government's Prize	185
Staff	35
Standing and Promotion in Engineering	274
Standing Committees of the Senate	26
Stewart (Alexander D.) Prize.	285
Strathcona Prizes for Physical Education	06 271
Students in Attendance	96, 371 543
Summer Essays and Reading in Engineering	243
Summer Schools:—	210
In Engineering	242
In French	434
In Metallurgy	267
In Mining	270
In Surveying.	273
Supplemental Examinations	104
Supplementary Courses in Accountancy	209

xviii INDEX

	PAGE
Surgery, Courses in Medicine. Dentistry Surgery, Dental Surveying Sutherland Cold Medal	308 344 340 272 284
Teachers, School for . Teachers, Training of . Tests (Interim) Theological Colleges, Affiliated . Theological College Scholarships . Theological Studies, Graduate Courses in . Therapeutics:— In Medicine	475 127 103 68 94 435 01, 303 339 391 170 218 349 90 127 198 218
Undergraduates. Undergraduates' Society's Prize in Engineering United Theological College United Theological College Scholarships University Entrance Scholarships University Loan Fund. University Women's Federation Scholarship Urology, Course in	96 219 69 94 91 175 377 310
Vaccination Verdun Protestant Hospital Victorian Order of Nurses' Scholarship. Vineberg (H.M.) Fellowship in Gynæcology	95 321 458 378
Waddell Lcan Fund. Wales (Pritce of) Gold Medal. Western General Hospital. Wicksteed Medals for Physical Education. Williams (Dr. J. Francis) Fellowship. Wives of Members of the Teaching Staff. Women Students.	221, 377 174 320 477 286 175 96, 176

INDEX		xix
Wood Gold Medal. Workman Student.	•••	PAGE 284 217
Zoology, Courses in Arts and Science		159 436



ADMINISTRATIVE OFFICERS

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P. H. SILVER, D.D.S.

Clinical Demonstrator in Dentistry. 1117 St. Catherine St. West.

BARUCH SILVERMAN, M.D., C.M. Demonstrator in Mental Hygiene.

531 Pine Ave. West.

FINLAY W. SIMONS, M.Sc. (Alberta). Demonstrator in Physics, 1934-35.

Physics Building.

J. C. SIMPSON, B.Sc., LL.D. (Mount Allison).

Professor of Histology and Embryology and Secretary of the Faculty of Medicine.

4107 Hampton Ave.

ZERADA SLACK, B.A., Higher Dip. M.S.P.E. Assistant Physical Director for Women.

Royal Victoria College.

DAVID SLIGHT, M.B., Ch.B. (Edin.), D.P.M. (R.C.P. and S. Eng.), F.R.C.P. (C.).

Clinical Professor of Psychiatry.

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Lecturer in Commercial Law (School of Commerce). 275 St. James St.

DURNFORD SMITH, B.Sc. Demonstrator in Physics, 1934-35.

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Frederick Smith, M.A., M.B., B.Ch. (Cantab.), M.R.C.S. (England), L.R.C.P. (Lond.).

Lecturer in Bacteriology.

Pathological Institute.

STANLEY G. SMITH, B.Sc.

Research Assistant in Genetics.

Biological Building.

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HAROLD DAVEY SOUTHAM, B.A. (British Columbia), D. Paed. (Toronto). Assistant Professor of Education.

Arts Building.

J. B. SPEIRS, L.R.A.M., A.R.C.M., M.R.S.T. (Eng.). Instructor in Pianoforte.

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JANE D. SPIER, M.Sc.

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Pathological Institute.

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Montreal Neurological Institute.

E. W. R. STEACIE, M.Sc., Ph.D.

Assistant Professor of Chemistry.

Chemistry Building.

WILLIAM A. STEEVES, B.A. (Acadia), Ed.M. (Harvard).

Assistant Director of Practice Teaching.

Macdonald College.

R. L. Stehle, M.A. (Ohio State University), Ph.D. (Yale).

Professor of Pharmacology and Chairman of the Department.

Biological Building.

A. Stewart, M.D., C.M., F.R.C.S. (C.).

Demonstrator in Anatomy and Surgery.

Drummond Medical Building.

Blanche Stewart, N.F.U. (London).

Instructor in Kindergarten Methods and Kindergarten Director.

Macdonald College.

— C. C. Stewart, M.D., C.M.

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R. F. Suit, B.S., M.S., Ph.D. (Iowa State College).

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Peter Redpath Professor of Pure Mathematics and Joint Chairman of the Department.

Arts Building.

NORAH SULLIVAN, M.A.

Lecturer in English and Director in Play Production. Arts Building.

ROBERT SUMMERBY, M.S.A. (Cornell).

Professor of Agronomy and Chairman of the Department.

Macdonald College.

Hon. Mr. Justice E. Fabre Surveyer, B.A., LL.M. (Laval), B.C.L., F.R.S.C.

Professor of Criminal Law and Procedure.

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Demonstrator in Medicine. 1509 Sherbrooke St.



J. C. Sutton, B.A., M.D., C.M. Demonstrator in Anatomy.

Medical Building.

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F. S. SYMONS,

Lecturer in Insurance and Transportation.

615 Royal Bank Building.

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Joseph Morley Drake Professor of Physiology and Chairman of the Department. Biological Building.

WILLIAM D. TAIT, B.A. (Dal.), M.A. and Ph.D. (Harvard).

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Director of the Psychological Laboratory.

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Lecturer in Zoology.

Biologics

Biological Building.

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Physics Building.

KATHLEEN TERROUX, M.Sc., Ph.D.

Assistant in Zoology. Biological Building.

ALEXANDER MACKENZIE THOMPSON, M.A. (Queen's), Ph.D. (Harvard).

Associate Professor of Classics.

Arts Building.

J. H. THOMPSON, B.A.Sc. (Toronto).

Demonstrator in Chemistry, 1934-35. Chemistry Building.

R. Redvers Thompson, B.S.A. (Toronto), M.Sc., Ph.D.

Assistant in Bacteriology.

Macdonald College.

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Professor of Accountancy.

487 Argyle Ave., Westmount.

Professor of Accountancy. 487 Argyle A DAVID L. THOMSON, M.A. (Aberdeen), Ph.D. (Cantab.).

Associate Professor of Biochemistry. 3521 University St.

F. T. TOOKE, B.A., M.D., C.M.

Clinical Professor of Ophthalmology.

1482 Mountain St.

RAMSAY TRAQUAIR, M.A., F.R.I.B.A.

Head of the School of Architecture and Macdonald Professor of Architecture.

Engineering Building.

G. EDWARD TREMBLE, M.D., C.M., D.L.O., R.C.P. & S. (Eng.) F.R.C.S. (C.).

Demonstrator in Oto-Laryngology. 1390 Sherbrooke St. West.

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Secretary of the Conservatorium of Music and Instructor in 677 Sherbrooke St. West. Orchestral Playing.

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1100 Beaver Hall Hill.

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115 Sunnyside Ave., Westmount.

BARBARA ULRICHSEN, M.A. Assistant in English.

Arts Building.

E. FRANCES UPTON, R.N.

Instructor in Nursing Legislation.

Ass'n of Registered Nurses of the Province of Quebec.

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1538 Sherbrooke St. West.

S. J. USHER, B.A., M.D., C.M. Assistant Demonstrator in Pædiatrics.

1538 Sherbrooke St. West.

HUGH A. I. VALENTINE, B. Arch. Demonstrator in the School of Architecture. Engineering Building.

C. VAN CAMP, Instructor on the Trumpet.

Conservatorium of Music.

ALLAN B. VAN CLEAVE, M.Sc. (Sask.), Ph.D. Demonstrator in Chemistry, 1934-35.

Chemistry Building.

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1396 St. Catherine St.

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Royal Victoria College.

A. H. WALKER.

Instructor in Floriculture.

Macdonald College.

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Royal Victoria Hospital.

G. A. WALLACE, M.Sc.

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A. L. WALSH, D.D.S.

Acting Dean of the Faculty of Dentistry and Associate

Professor of Dental Surgery. Royal Victoria Hospital.

HERMANN WALTER, M.A. (Edin.), Ph.D. (Munich).

Professor of German and Chairman of the Department. Arts Building.

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Demonstrator in Industrial Hygiene. 561 Côte St. Catherine Road.

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Sessional Lecturer in Physics. Physics Building.

W. H. WATSON, M.A., Ph.D. (Edin. & Cantab.).

Assistant Professor of Physics. Physics Building.

THEO. R. WAUGH, B.A. (Yale), M.D., C.M.

Assistant Professor of Pathology. Pathological Institute.

JOHN J. WEATHERSEED, A.R.C.O.

Lecturer in Form and History of Music and Instructor in Pianoforte and Organ.

Conservatorium of Music.

E. C. WEBSTER, M.A.

Demonstrator in Psychology.

Arts Building.

JAMES WEIR, B.Sc.

Assistant Professor of Geodesy.

Engineering Building.

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1410 Guy St.

W. E. WHITEHEAD, M.Sc.

Lecturer in Entomology.

Macdonald College.

Biological Building.

J. H. WHYTE, B.Sc., Agr. (Edin.), M.Sc.

Demonstrator in Botany.

A. L. WILKIE, B.A., M.D., C.M.

Demonstrator in Surgery.

1374 Sherbrooke St. West.

K. RELIEF WILLIAMS, B.A.

Assistant in History.

W. E. WILLIAMS, M.D., C.M.

Demonstrator in Pædiatrics.

W. L. G. WILLIAMS, M.A. (Oxon.), Ph.D. (Chicago), F.R.S.C. Professor of Mathematics.

N. T. WILLIAMSON, M.D., C.M., F.R.C.S. (C.).

Demonstrator in Orthopædic Surgery.

K. A. WILSON, B.C.L., K.C.

Lecturer in Commercial Law.

P. R. WILSON, B. Arch., A.R.I.B.A.

Demonstrator in Architecture.

A. R. WINN, B.Sc., D.D.S.

Clinical Demonstrator in Orthodontia.

Arts Building.

Medical Arts Building.

Engineering Building.

Medical Arts Building.

275 St. James St. West.

Engineering Building.

1240 Phillips Square.

F. M. WOOD, B.Sc., M.A.

Assistant Professor of Civil Engineering and Applied Mechanics. Eng

Engineering Building.

WILLIAM DUDLEY WOODHEAD, B.A. (Oxon), Ph.D. (Chicago).

Dean of the Faculty of Arts and Science, Hiram Mills

Professor of Classics, and Chairman of the Department.

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C. F. WYLDE, C.B., M.D.

Honorary Medical Librarian.

V. C. WYNNE-EDWARDS, M.A. (Oxon.).

Assistant Professor of Zoology.

A. W. Young, M.D., C.M., F.R.C.P.(C.).

Lecturer in Neuropathology.

D. Young, C.A.

Lecturer in Accountancy.

D. Young, P. A. (Alberta)

EVA R. YOUNGE, B.A. (Alberta), M.A.

Assistant in Sociology.

1414 Drummond St.

1461 Crescent St.

Biological Building.

1390 Sherbrooke St. West.

215 St. James St. West.

Arts Building.

Prof 185

CALENDAR FOR THE SESSION 1935-36

1935

1935	
Wednesday, Sept. 11th	Matriculation examinations begin.
Monday, Sept. 9th	all arresines
Wednesday, Sept. 11th	Registration of students in Physical Education.
to	Registration of students in Medicine and
Tuesday, Sept. 17th	
	Lectures in School of Physical Education begin.
Monday, Sept. 16th	Conservatorium of Music opens. Supplemental examinations in Arts and Science, Commerce and Engineering begin.
Wednesday, Sept. 18th	Lectures in Medicine and Dentistry begin.
Monday, Sept. 23rd	Registration of students in the Library School.
to	Registration of students in Law, First Year Engineering, and of others in Engineering
Saturday, Sept. 28th)	who have no conditions.
Monday, Sept. 23rd	Scholarship examinations in Arts and Science begin.
	Lectures in the Library School begin.
Thursday, Sept. 26th	Registration of students in Arts and Science,
Saturday, Sept. 28th	Commerce and Graduate Nurses.
Friday, Sept. 27th	Registration of conditioned students in Engineering.
Monday, Sept. 30th	Lectures in Arts and Science, Commerce, Engineering, Law, and Graduate Nurses begin.
Saturday, Oct. 5th	Installation of Principal.
Sunday, Oct. 6th	Founder's Day.
Monday, Oct. 7th	Convocation.
Thursday, Oct. 10th	Sports Day. No lectures.
Monday, Oct. 14th	Thanksgiving Day. No lectures.
Monday, Nov. 11th	Remembrance Day. No lectures.
Friday, Dec. 20th	Last day of lectures before Christmas in all Faculties and Schools.

1936 MONZEES STATE SOS SACUELAS
Monday, Jan. 6th Lectures resumed in all Faculties and Schools.
Monday, Jan. 13th Mid-session examinations in Arts and Science, Commerce, Engineering and the School of Physical Education begin.
Friday, Jan. 17th Second term begins in Arts and Science, Commerce, Engineering, Law, Physical Education, and Graduate Nurses.
Monday, Feb. 10th Founder's Day at Macdonald College.
Wednesday, Feb. 26thAsh Wednesday. No lectures.
Thursday, April 9th Lectures end in the first three years in Engineering and all years in Architecture.
Friday, April 10th to Monday, April 13th Easter vacation.
Wednesday, April 15th Examinations in the first three years in Engineering and in all years in Architecture begin.
Friday, April 24th \{ Lectures end in all Faculties and Schools, except Medicine and the Library School.
Tuesday, April 28th Last day of lectures in Medicine.
Thursday, April 30th Examinations in Arts and Science, Commerce, Fourth Year Engineering, Law, Physical Education, and Graduate Nurses begin.
Friday, May 1st Examinations in Medicine begin.
Wednesday, May 6th Lectures end in the Library School.
Thursday, May 7th Examinations begin in the Library School.
Thursday, May 28th Convocation for conferring degrees and diplomas.
Monday, June 15th Matriculation Examinations begin.

The Senate meets on the third Wednesday in every month from September to May, inclusive.

A BRIEF HISTORY OF THE UNIVERSITY

In 1813 the Hon. James McGill, a leading merchant and prominent citizen of Montreal, died and left in his will a property of forty-six acres and a sum of £10,000 to the already existing Royal Institution for the Advancement of Learning upon condition that the latter erected "upon the said tract or parcel of land, an University or College, for the purposes of education and the advancement of learning in this Province"; and further upon condition that "one of the Colleges to be comprised in the said University shall be named and perpetually be known and distinguished by the appellation of 'McGill College'."

Owing to a lack of funds and persistent opposition the complete University, which had been planned by the Royal Institution, was not built, but after years of litigation and effort, the University of McGill College was opened in 1829 with what remained of James McGill's legacy as its endowment; and teaching then started in the Faculties of Medicine and Arts. The Medical Faculty grew steadily, but the Faculty of Arts had a most delicate infancy, and by the middle of the century was still scarcely alive. In 1852 an amended Charter was secured and a new era of progress and success began with the appointment in 1855 of Sir William Dawson as Principal, a position which he held for thirty-eight years.

Since 1855 the University has grown vigorously, dividing itself into further faculties, and in 1907 establishing Macdonald College at Ste. Anne de Bellevue, twenty-five miles from Montreal, as a separate residential college for Agriculture, Household Science, and the School for Teachers. This general development was greatly facilitated by the generosity of Sir William Macdonald, who gave the University a Physics Building, a Chemistry and Mining Building, and a new Engineering Building, in addition to the college named after him and mentioned above.

A history of the University, "McGill and its Story," by Professor Cyrus Macmillan, is published by the Oxford University Press, Toronto.

GOVERNMENT OF THE UNIVERSITY

McGill University is a Corporation created by a Royal Charter granted by the Crown of the United Kingdom, a general supervisory power being retained by the Crown and exercised through the Governor-General as Visitor.

The Governors of the University constitute the Royal Institution for the Advancement of Learning, a corporation existing under the laws of the Province of Quebec, part of the official organization of the Province, but completely self-governing. In them is vested the management of finances, the appointment of professors, and other important duties. Three of the Governors are elected by the members of the Graduates'

Society and other appointments are made by the nomination of the remaining members with the approval of the Visitor. The President of the Board of Governors is *ex-officio* Chancellor of the University.

The *Principal* is the academic head and chief administrative officer. He is appointed by the Board of Governors (of which body he is a member *ex-officio*). He also holds the office of Vice-Chancellor of the University.

The Senate consists of the Chancellor, the Principal, the Deans of the Faculties, the Warden of the Royal Victoria College, the Director of the School for Teachers, all ex-officio; five Governors elected by the Board, and eight professors elected by the various faculties. The Principal is ex-officio Chairman of the Senate which is the supreme academic authority of the University and has control over admission, courses of study, discipline, and degrees.

The carrying out of the regulations of the Senate along with primary responsibility for the conduct of the educational work of the University, is entrusted to the several Faculties.

INCORPORATED AND AFFILIATED COLLEGES

INCORPORATED COLLEGES

Macdonald College is situated at Ste. Anne de Bellevue, about twenty miles from Montreal. It consists of three departments:—The School of Agriculture, the School of Household Science, and the School for Teachers. All courses leading to the Bachelor's and Master's degrees are under the control of the Senate of McGill University; all the short term courses in agriculture, as well as the shorter courses in domestic science, are under the direction of the Faculty of Agriculture, and those for diplomas to teach in the Province of Quebec are prescribed and regulated by the Department of Education. Full information is given in the Macdonald College Announcement, which will be sent on application to the Registrar, Macdonald College, Que. (See also page 475.)

The Royal Victoria College is the Women's College of McGill University for courses in the Faculty of Arts and Science. For further particulars, see pages 176 to 179.

AFFILIATED COLLEGES

Acadia, Alberta and Mount Allison Universities and the University of St. Francis Xavier College are affiliated to McGill University to the extent that students who have completed the two-year course in engineering given by these universities are admitted directly to the Third Year in any of the engineering courses in the Faculty of Engineering, except that in Chemical Engineering, for which special arrangements are at present necessary.

Students from these universities entering the Third Year must take the summer school suitable to their course, in May, or the special school in September, which will open in 1935 on September 3rd in Chemical, Mechanical and Metallurgical Engineering and on September 16th in Civil and Mining Engineering.

Royal Military College.—Graduates of the Royal Military College of Kingston, when specially recommended by the Director of Studies of that Institution, are admitted to the Fourth Year in the Civil Engineering Course and to the Third Year in the other engineering departments of the Faculty of Engineering. They must in all cases take the respective summer schools pertaining to these several courses, which are held in September, as stated in the preceding paragraph.

Arrangements have also been made whereby graduates and students of the Mechanical Science course in the University of Cambridge will be admitted to advanced standing in the Faculty of Engineering under definite regulations, particulars of which can be obtained from the Dean of the Faculty.

AFFILIATED THEOLOGICAL COLLEGES

The Theological Colleges named below are affiliated to the University under the following arrangements:—Students in these institutions, who are pursuing a double course in Arts and Theology (six years at least), will be exempted from a half course in Arts and Science in each of the Third and Fourth Years or a whole course in either.

The United Theological College of Montreal.—Principal, Rev. James Smyth, B.A., D.D., LL.D., 3506 University St.

The Diocesan College of Montreal.—Principal, Rev. G. Abbott-Smith, M.A., D.D., D.C.L., 3473 University St.

The Presbyterian College, Montreal.—Principal, Rev. F. Scott Mackenzie, M.A., Th.D. (Harvard), D.D. (Knox), 3485 McTavish St.

For Calendars and all necessary information, apply to the Principals of the several Colleges.

AFFILIATION WITH OTHER UNIVERSITIES

The University is affiliated to the Universities of Oxford, Cambridge and Dublin. Under certain conditions students of McGill University may be granted advanced standing in these Universities. Particulars of these conditions may be obtained from the Registrar.

JUNIOR MATRICULATION

For admission to the First Year of the Faculty of Arts and Science. For Senior Matriculation see page 82.

I. REGULATIONS

1. Junior Matriculation examinations are held in June and September—in June at McGill University and local centres; in September at McGill University only. The time-tables for these examinations are issued in February each year.

ALL INQUIRIES, EXCEPT FROM CANDIDATES IN GREAT BRITAIN, RE-LATING TO THE EXAMINATIONS SHOULD BE ADDRESSED TO THE REGISTRAR OF THE UNIVERSITY.

For the convenience of candidates in Great Britain, the June examination is held each year in London, Eng. Full information regarding dates, fees, etc., may be obtained from the Honorary Representative of the University, W. A. Bulkeley-Evans, Esq., C.B.E., M.A., LL.D., 5 Paper Buildings, Temple, London E.C. 4.

2. Every candidate for examination is required to fill in an application form and return it to the Registrar's Office with the necessary fee before the 20th of May or the 20th of August for the June or September examinations respectively. Applications received after these dates are not accepted and the accompanying fees are returned. The fee is one dollar per paper with a minimum fee of two dollars and a maximum fee of ten dollars. Blank forms may be obtained from the Registrar's Office.

In centres outside Montreal candidates may be required to pay the whole or part of the expenses of invigilation.

- 3. In order to pass, a candidate must obtain an average of 60 per cent in the ten required papers of the examination, and not less than 40 per cent in any paper. A candidate, however, whose marks in one paper fall below 40 per cent is given matriculation standing if his average in his ten papers is not less than 70 per cent.
- 4. The examination may be taken in parts, but must be completed within a period of sixteen months.

This regulation also applies in the case of certificates granted by other recognized examining bodies.

- 5. Matriculation certificates will be issued only to candidates who have passed the complete University Matriculation Examination.
- 6. Books containing the examination papers set in either June or September of any one year may be obtained from the Bursar's Office at 25c a copy.

CERTIFICATES RECOGNIZED

The certificates and diplomas named below will (if they have been obtained under no easier conditions than those which apply in the case of the McGill Matriculation certificate) be accepted *pro tanto* in lieu of the Junior Matriculation examination, *i.e.*, in so far as the subjects and standard of the examination taken to obtain them are, to the satisfaction of the Admissions Committee, equivalent to those required for the Matriculation Examination of this University. Candidates for admission offering certificates which are not a full equivalent may be required to pass in one or more matriculation papers.

Intending students who wish to enter by certificate should under no circumstances come to the University without having first obtained from the Registrar a statement of the value of the certificate they hold.

Province of Quebec.

The High School Leaving Certificate.

Province of Ontario.

Middle School Certificate.

Province of New Brunswick.

Junior Matriculation or High School Leaving Certificate.

Province of Nova Scotia.

Grade XI Certificate.

Province of Prince Edward Island.

Second Year Certificate of Prince of Wales College.

Province of British Columbia.

Junior Matriculation.

Province of Manitoba.

Grade XI Certificate.

Provinces of Alberta and Saskatchewan.

Grade XI Certificate.

Newfoundland.

Junior Matriculation.

Great Britain.

The School Certificate (with four or five credits) of:-

The Oxford and Cambridge Schools Examination Board.

The Oxford Local Examination Board.

The Cambridge Local Examination Board.

The Northern Universities Joint Examination Board.

The Central Welsh Board.

Durham University.

Bristol University.

University of London.

The University of London Matriculation.

The Certificate of Fitness issued by the Scottish Universities Entrance

Details of the credits required in the School Certificate may be obtained from the Registrar's Office.

United States.

- 1. McGill University recognizes the qualifying examinations conducted by the College Entrance Examination Board, 431 West 117th Street, New York City.
- 2. A student may obtain matriculation qualifications by writing these examinations according to Plan B in *four* subjects which must include
 - (1) English (Four-Year)
 - (2) Mathematics (A1 and C)
 - (3) French or German or Latin or Greek (Four-Year).
 - (4) A subject not already chosen.

In addition the student must submit his complete High School record which must show the position he occupied in his class, and the number of students in the class, and must submit a letter from his Principal.

- 3. An examination in Latin or Greek is compulsory for entrance to the B.A. courses, and distinct ability in scientific subjects must be shown for entrance to the B.Sc courses.
- 4. Certificates from accredited High Schools are not normally recognized but pupils are sometimes admitted if they occupy a position in the first fifth of their class and are specially recommended for University work by their Principals.

Miscellaneous.

Other certificates, such as those issued by reputable universities or recognized public Examining Boards, will be judged on their merits and accepted in so far as they meet the entrance requirements.

II. SUBJECTS OF EXAMINATION

(For 1936)

A. For admission to the Arts Division of the Faculty of Arts and Science.

	Maximum	
	Marks	
1.	200	English.
2.	100	History.
3.	200	Latin or Greek.
4.	200	One of the following:
		Greek or Latin (the one not already chosen):
		French; German.
5.	200	Elementary Mathematics.
6.	100	One of the following:
		Botany; Chemistry; Physics; Music; one paper in
		Intermediate Mathematics; a foreign language not
	-	already chosen (the average of the two papers is counted).
Total	1.000	

B. For admission to the Science Division of the Faculty of Arts and Science.

	Maximum	
	Marks	
1.	200	English.
2.	100	History.
3.	200	French or German.
4.	200	Elementary Mathematics.
5.	100	One of the following:
		Botany; Chemistry; Physics.
6.	200	Either Latin or Spanish or French or German (if not
		already chosen) or any two of the following papers not
		already chosen:
		(a) Intermediate Algebra.*
		(b) Intermediate Geometry and Trigonometry.*
		(c) Botany.

- (d) Chemistry.
- (e) Physics.
- (f) Music or Drawing (Music and Drawing may not both be chosen).

Total 1.000

The "maximum marks" above are those of the University's Junior Matriculation Examination and have no reference to any other Examination.

The High School Leaving Biology Examination or any equivalent examination of another Province in Biology will be accepted as an alternative to Botany, Chemistry or Physics.

^{*}Candidates who intend to enter Engineering ultimately are advised to choose these papers.

C. For Admission to the School of Commerce.

The B.A. or B.Sc. Junior Matriculation Examination.

PRESCRIPTION OF WORK IN EACH SUBJECT

For the examinations in June and September 1936.

In all papers marks will be deducted for bad errors in spelling.

Books containing the examination papers set either in June or in September of any year may be obtained from the Bursar's Office at 25 cents a copy.

Botany.

Candidates will be examined on the following schedule:-

1. The form, structure and work of plants, especially higher plants, and of their various organs.

Bergen and Caldwell, Chapters I to IX and XXI, with some amplification as to microscopic structure and physiology. The practical work in Eikenberry provides a basis for this amplification. The teacher is referred to Gager, Parts I and II.

2. Broad classifications and comparative study of the main groups of plants; familiarity with standard types.

Bergen and Caldwell, Chapters X to XIX.

3. Distinguishing characters of the commoner families of flowering plants (Bergen and Caldwell, Chapter XX). Field study; an elementary acquaintance with the flora and ecology of the district in which the candidate lives (The remaining chapters of Bergen and Caldwell may serve as a guide, but first hand acquaintance with local plants is mainly desired).

Text-books:—Bergen and Caldwell's "Practical Botany," to be used with Eikenberry's "Problems in Botany," a laboratory manual for the guidance of teachers. Gager's "General Botany," and Macgregor Skene's "Biology of Flowering Plants" are also recommended for teachers.

Chemistry.

An elementary treatment of the fundamental principles of chemistry, with the preparation and properties of the commoner elements and their most important compounds, the application of these in the home and in the industries, the laws of chemical action, the essential hypotheses, etc.

Text-book:—"Elementary Chemistry for High Schools" (Revised Edition) by Nevil Norton Evans (W. J. Gage & Co. Ltd., Toronto), Chaps. I-XXV inclusive.

One examination paper.

Drawing.

Candidates must take two parts. They may take either (a) Parts I and II or (b) Parts III and IV or (c) one of III and IV and one of V and VI.

PART I

Elementary problems in Geometrical Drawing, with applications, as in Part I of Armstrong's Geometrical Drawing (Renouf Publishing Co.).

PART II

- (a) Reproduce freehand ornament designs from flat copies.
- (b) Make drawings, by freehand, or otherwise, of objects described, illustrating the principles of perspective.
- (c) Make outline drawings of objects placed at a short distance.

PART III

Draw in light and shade, with charcoal or pencil, from a plaster cast or ornament in high relief.

PART IV

Make water colour drawings of still life groups.

PART V. COMMERCIAL ART

- (a) Lettering, including Roman and Gothic.
- (b) Posters, Magazine Page Advertisements.
- (c) Illustration, in colour and otherwise.

PART VI. CRAFT DESIGN

- (a) Principles of ornament and decoration.
- (b) Historic Styles.
- (c) Themes, compositions or designs, founded on flowering plants, birds, fishes, butterflies, animals and humans, for specific purposes such as:—wall papers, embroideries, silver and copper work, jewellery, stained glass, decoration of pottery, cups and saucers, etc.

English.

A. Composition. As in the Ontario High School Composition, pages 198 to the end, *or equivalent*, with a short essay on a general subject and two or three essays based on the work prescribed for general reading (Numbers 3, 4, 5, and 6 below).

B. Literature. (The dates are those of the examinations.) For critical study.

- 1. 1936: Byron, Shelley and Tennyson, in Poems of the Romantic Revival (Copp, Clark Company, Toronto), or in Nineteenth Century Poetry, edited by Dilworth (Copp, Clark Company, Toronto).
 1937: Wordsworth, Keats, and Browning in the above texts.
- Shakspere: Plays in rotation: 1936 Julius Caesar.
 1937 Macbeth.
 1938 Richard III.

For general reading.

- Novels in rotation: 1936 Thackeray, Henry Esmond. 1937 Eliot, The Mill on the Floss. 1938 Scott, Kenilworth.
- Shakspere: Plays in rotation: 1936 As You Like It.
 1937 The Tempest.
 1938 Twelfth Night.
- 5. Macdonald, English Prose Selections. Part 2.
- 6. Stevenson: An Inland Voyage and Travels With a Donkey.

General questions on the books in the group "for general reading" (3, 4, 5, and 6) will be included in the paper on Literature. These books should be read carefully, but the student's attention should not be so fixed upon details that he fails to appreciate the main purpose and beauty of the work.

Candidates will be expected to commit to memory passages selected by teachers from the work prescribed "for critical study" in poetry and drama.

Two examination papers—one on Composition and one on Literature.

French.

Maupassant: Contes de Guerre (O.U.P.), and About: L'Homme à l'oreille cassée (O.U.P.).

Recommended Grammars: Fraser and Squair (Heath) or Bertenshaw (Longman), or Berthon (Dent), and Cameron: Elements of French Composition (Holt).

 ${\it Grammar:}$ —A thorough knowledge of French accidence and common syntax.

Texts:—Questions on the texts to be answered in French; translation from the texts.

Translation:—Translation into French of detached English sentences and an easy piece of continuous prose.

Composition:—*Either a short essay to be written in French *or The reproduction in French of a story read to the candidates in French in the examination room.

*These sections are alternatives, candidates for entrance to the University being strongly advised to choose the latter, if possible.

There are two papers:—I Texts and Grammar, II Composition and Translation.

All examination questions are set in French.

German.

Texts.—(Translation and grammatical study):-

Guerber, Märchen und Erzählungen Vol. I. (Heath), omitting Nos. 3, 4, 10, 14 and Poems; Baumbach, Der Schwiegersohn (Copp, Clark Co.).

Grammar.—A thorough knowledge of German accidence and syntax as in Van der Smissen, or any other German grammar of equally good standing.

Translation at Sight into English of a German passage of moderate difficulty.

Translation into German of detached English sentences and of an easy English passage. Material for such translation is selected with a view to exemplifying the points of grammar included within the above limits.

Two papers; one on prescribed texts and grammar, including translation of short English sentences into German, and one on translation of continuous passages from German into English and from English into German.

Greek.

Texts:—Colson, Greek Reader (Macmillan) Parts III, IV, V; Homer, Iliad I, lines 1 to 392.

Grammar.—Knowledge of grammar will be tested by translation and by grammatical questions based on the specified texts.

Translation at Sight from Greek into English.

Two examination papers; one on Colson and Composition; the other on Homer and Translation at Sight.

History.

General History from 1618-1914.

Any standard General History such as Myers, General History (Ginn & Co.), or Hayes and Moon, Modern History (Macmillan), pp. 143–575, may be used as a text book.

01

British History from 1714-1914

Text-book: The Groundwork of British History by Warner and Martin (Blackie & Sons, Edinburgh), or any similar text-book.

One examination paper.

Undue adherence to a text book should be avoided and teachers should impress on pupils that the examination will be on the period and not on any one book used. To this end the following are recommended for supplementary reading. It is suggested that they be used and discussed with close reference to class work. At least one from each group should be read and a general knowledge of the three books chosen will be assumed for the examination.

General History

- (a) R. Lodge Macaulay Young
- (b) H. Fisher
 J. Holland Rose
 E. Ludwig
- (c) Bolton King
 G. M. Trevelyan
 Ramsay MacDonald

British History

- (a) Horace Walpole G. O. Trevelyan I. Holland Rose
- (b) J. L. and B. Hammond Disraeli Cobbett
- (c) Lytton Strachey
 R. Barry O'Brien
 G. B. Shaw

Richelieu (Macmillan).
Frederick the Great (Everyman).
Travels in France (Bohn's Popular Library).

Napoleon (H.U.L.)
The Personality of Napoleon (Bell).

Bismarck (Allen & Unwin). Mazzini (Everyman).

Garibaldi and the Thousand (Nelson). The Socialist Movement, 1835–1911 (H.U.L.)

Selected Letters (Everyman).
C. J. Fox (Longmans).
A Short Life of Pitt (Bell & Co.).
The Village Labourer (Longmans).

Sybil (Macmillan).
Rural Rides (Everyman).
Queen Victoria (Harcourt).

John Bright (Murray).

John Bull's Other Island (Constable)

Italian.

Prescribed texts:—Bowen's Italian Reader (Heath); Manzoni, I promessi sposi.

Grammar.—A thorough knowledge of Italian accidence and of those points of syntax which are of more frequent occurrence in an ordinary easy style.

Translation at Sight into English of an Italian passage of moderate difficulty.

Translation into Italian of detached English sentences and an easy English passage. Material for such translation is selected with a view to testing the candidate's general knowledge of Italian grammar.

Books recommended:—Grandgent's Italian Grammar (Heath); Grandgent's Italian Composition (Heath).

Two papers will be set; one on grammar, including translation of short English sentences into Italian, and one on translation of continuous passages from Italian into English (from prescribed texts) and from English into Italian.

Latin.

Texts (Translation and Grammatical study).

Cicero, In Catilinam 1 and 4 (omitting Chapter VI in each speech); Virgil, Aeneid, Book I.

Grammar.—Knowledge of grammar will be tested by translation and composition, and by grammatical questions based on the specified texts.

Translation at Sight from Latin into English.

Composition.—Translation into Latin of detached English sentences and easy narrative.

Two examination papers; one on Cicero and Composition, and the other on Virgil and Translation at Sight.

Note.—The "Roman" method of pronouncing Latin is recommended.

Elementary Mathematics.

Algebra.—Elementary rules, involution, evolution, fractions, indices, surds, simple and quadratic equations of one or more unknown quantities, ratio and proportion, as in Hall and Knight's Elementary Algebra. Chapters I to XXXII (omitting portions marked with an asterisk and Arts. 303-311), or as in similar text-books.

One examination paper.

Geometry.—The paper will contain questions on practical and on theoretical geometry.

In practical geometry, where the validity of a construction is not obvious, the reasoning by which it is justified may be required. Every candidate must provide himself with a ruler graduated in inches and tenths of an inch, and in centimetres and millimetres, a set square, a protractor, compasses and a hard pencil. All figures should be drawn accurately.

The questions on theoretical geometry will consist of theorems contained in the text-book prescribed, together with questions upon these theorems, easy deductions from them, and arithmetical illustrations. Any proof of a proposition will be accepted if it forms part of a systematic treatment of the subject.

In the proof of theorems and deductions from them, the use of hypothetical constructions will be permitted. Proofs which are only applicable to commensurable magnitudes will be accepted.

Text-book recommended:—Hall and Stevens' School Geometry, pp. 1-203, 219-265, 267-276 and Theorems 69, 70, 71, 72.

One examination paper.

Intermediate Mathematics.

Algebra.—The three progressions, variations, permutations and combinations, binomial theorem, logarithms, theory of quadratic equations, as in the remainder of Hall and Knight's Elementary Algebra (omitting chaps. 40 to 44 inclusive), or as in similar text-books.

One examination paper.

Geometry.—As in Hall and Stevens' School Geometry, pp. 192-322, or as in similar text-books.

Trigonometry.—Measurement of angles, trigonometrical ratios or functions of one angle, of two angles, and of a multiple angle; as in Lock's Elementary Trigonometry, Chaps. I to XII; Hall and Knight's Elementary Trigonometry, Chaps. I to XII, inclusive; Hall and Knight's Elementary Trigonometry, revised Canadian edition, Chaps. I to X, inclusive; or as in similar text-books.

Geometry and Trigonometry will be included in one examination paper.

Four-figure mathematical tables will be provided.

Music.

The Intermediate Grade Certificate of McGill University in practical subjects and the Junior Grade Certificate in theoretical or vice versa. (Details will be found in the Announcement of the Conservatorium of Music.)

Physical Geography.

(Recognized for admission to the Faculty of Agriculture only.)

Tarr's new Physical Geography, Chapters I to XIV and appendices A to H inclusive, or the Ontario High School Physical Geography (Ryerson Press).

Physics.

The Ontario High School Physics (1923 edition), Copp Clark Co., omitting the following:—

Sections 26-29, 37, 41, 43, 47, 48, Problems page 47, Section 60, 61, 65, Pages 72–73, Sections 81, 82, 87, 101, 105, 106, 108, 111, 112, 114–118, 121–124, 127, 129, 130, Problems page 122, Sections 131, 132, 135, 136, 138–146, 149, Problems pages 139, 140, Chapters XVI-XXI, Sections 231, 232, 271, 273–275, 278, 279, 288–293, Chapters XXXI-XXXVIII, Sections 399, 401–403, 406, 409, 413, 429 (first part), 433, 438, 439, 443, 451, 452, 456, 458–460, Problems page 425, Sections 463, 470, 473, 480, 481, 487, 496, 498–500, 506, 509, 510, 512, 514, 519, 520, 522, 527, 532, 533, 536, 538–540, 545–548, Chapter XLIX.

Candidates will not be asked to solve problems depending upon the omitted sections.

The following portions, though omitted above, should be read. No questions upon them will be set in the examination.

Chapter XVI, Sections 131, 132, 291, 292, 506, Chapter XLIX.

One examination paper.

Spanish.

Two papers will be set, containing (1) questions on grammar and syntax, (2) passages for translation from prescribed text-books, (3) unseen translation from Spanish into English, and (4) translation from English into Spanish.

Texts prescribed:—Juan Valera's "El pajaro verde" (Ginn & Co.); Hills & Cano, "Cuentos y Leyendas" (Heath & Co.).

Books recommended:—Coester's Spanish Grammar (or any other good Spanish grammar); Cool's Spanish Composition.

SENIOR MATRICULATION

For admission to the Second Year of the Faculty of Arts and Science (see also page 98), and to the First Year of the Faculty of Engineering.

For Junior Matriculation see page 70.

REGULATIONS

- 1. Senior Matriculation Examinations are held at the same time and in the same centres as the Junior Matriculation Examinations (see page 71).
- 2. Every candidate is required to fill out an application form and return it with the necessary fee to the Registrar's Office before the 20th of May or the 20th of August for the June and September examinations respectively. Applications received after these dates are not accepted and the accompanying fees are returned. The fee is two dollars per paper with a minimum fee of three dollars and a maximum fee of fifteen dollars. The application forms may be obtained from the Registrar's Office.
- 3. To obtain the Senior Matriculation Certificate a candidate must pass in each of the required papers (see below), and must complete the examination within a period of sixteen months.
 - 4. The pass mark in each paper is 50%.
- 5. The University cannot promise to admit every candidate who has passed the Senior Matriculation Examination (see page 97).

PREVIOUS PAPERS

Books containing the examination papers set either in June or in September of any one year may be obtained from the Bursar's Office at 25 cents a copy.

CERTIFICATES RECOGNIZED

The following certificates will be considered on their merits towards meeting the Senior Matriculation requirements:—

Province of Quebec.

Twelfth Year Certificate.

Province of Ontario.

Upper School Certificate.

Province of Nova Scotia.

Grade XII Certificate.

Province of Prince Edward Island.

Third Year Certificate of the Prince of Wales College.

Province of Manitoba.

Grade XII Certificate.

Provinces of Alberta and Saskatchewan.

Grade XII Certificate.

Province of British Columbia.

Senior Matriculation Certificate.

Newfoundland.

Senior Matriculation Certificate.

Great Britain.

The Higher Certificates of:-

The Oxford and Cambridge Schools Examination Board.

The Oxford Local Examination Board.

The Cambridge Local Examination Board.

The Northern Universities Joint Examination Board.

The Central Welsh Board.

Durham University.

Bristol University.

London University.

REQUIREMENTS

I. ARTS DIVISION

For admission to the Second Year of the B.A. courses.

English.

Latin or Greek.

Mathematics or a third foreign language.

Any two of the following:-

1. History.

- 2. Latin or Greek (the one not already chosen).
- 3. French.
- 4. German.
- 5. Science (Physics or Chemistry or Biology).

Candidates cannot substitute a third foreign language for Mathematics unless they have passed in the Mathematics prescribed for Junior Matriculation.

II. SCIENCE DIVISION

For admission to the Second Year of the B.Sc. courses. Chemistry.
English.
French or German.*
Mathematics.
Physics.

III. COMMERCE

For admission to the Second Year of the B.Com. courses.

English.
Mathematics.
French or German or Spanish.
Accountancy.

Any two of the following:-

- 1. Latin or Greek.
- 2. French or German or Spanish (one not already chosen).
- 3. Physics or Biology or Chemistry.
- 4. History.

^{*}A candidate who has passed in Junior Matriculation French may satisfy the Senior Matriculation B.Sc. or B.Eng. German requirement by passing the Junior Matriculation examination in this subject with a pass mark of 50% in each paper.

IV. ENGINEERING

For admission to the First Year of the Faculty of Engineering.

Chemistry.

English.

Mathematics.

Physics.

French or German* or Latin or Greek or History.

REQUIREMENTS IN EACH SUBJECT

(For the examinations in June and September, 1936)

Accountancy.

Principles of double-entry, control accounts, trading and profit and loss statements, balance sheets, various forms of Cash Books, imprest system petty cash, Departmental Journals, Bills Registers, reserves for discounts, bad debts and depreciation, single-entry, consignments, working sheets, inward and outward freight, capital and revenue expenditure, bills of exchange, bills of lading, etc.

Text-books:—"Accounting Principles and Practice," by Smails and Walker (Ryerson Press, Toronto), Chapters 1-7 inclusive, and "One Hundred and Twenty Graduated Exercises in Book-keeping," by Thompson (Pitmans, Toronto). Exercises A to Q, inclusive.

One examination paper.

Further details will be given on application to the Registrar.

Biology.

Text-books:—Dakin, Elements of General Zoology (O.U.P.), Tansley, Elements of Plant Biology (Allen and Unwin).

The candidate will be expected to show a general elementary know-ledge of Zoology and Botany along the lines suggested by the recommended books; he should be familiar with the more important living natural resources of Canada, with the need for their proper development and conservation, and with the importance of parasites and economic pests in human welfare; he should also know something of the principles of heredity and of the rôle of vitamins and hormones in the regulation of growth and metabolism.

In addition, a certificate will be required, signed by the Principal of the school attended, to the effect that the candidate has regularly carried out the necessary laboratory work on the course indicated.

One examination paper.

^{*}A candidate who has passed in Junior Matriculation French may satisfy the Senior Matriculation B.Sc or B. Eng. German requirement by passing the Junior Matriculation examination in this subject with a pass mark of 50% in each paper.

Chemistry.

Text-book:—Schlesinger, General Chemistry (1930), omitting pages 328-343, 409-444, 495-507, 517-574, 710-739, 744-747.

Laboratory Manual: Evans, Hatcher, and Steacie, Laboratory Exercises in General Chemistry, is recommended.

One examination paper.

The student's notebook, setting forth his own laboratory work, certified by the Instructor and Principal of the School, must be forwarded before the examination to the Registrar for the examiner's evaluation.

Minimum laboratory work required: 20 experiments.

English.

Composition.—The examination will be designed mainly to test the candidate's ability to write English. He will be expected to have acquired a fairly clear and accurate style, to be able to arrange material in an effective fashion, and to show discrimination in the choice of words. In preparation for the examination it is suggested that students be required to write mainly on simple, expository subjects that are within the range of their actual experience.

Literature.—Candidates will be expected to have a general elementary knowledge of English literary history from the time of Chaucer, and the examination will be based upon a list of readings which may be obtained from the Registrar's Office.

French.

Murray and Casati, Revised Lessons in French (Rivington); Lavisse, Histoire de France, Cours Moyen; Maupassant, Huit Contes Choisis; Jules Verne, Le Tour du Monde (Heath); Dumas, Les Trois Mousquetaires (Heath); Hugo, Gavroche (Oxford).

Translation at Sight from English into French and from French into English.

Two examination papers.

Oral Examination: An oral examination is held in centres where this is possible, and students intending to study French at the University are strongly advised to take this examination. The oral examination is given in addition to the two papers, and, when offered, counts for half the marks in the subject.

German.

Chiles, German Composition and Conversation (Ginn & Co.); Baumbach, Waldnovellen (Heath); Riehl, Burg Neideck (American Book Co.); Hauff, Das Wirtshaus im Spessart (Cambridge University Press).

Translation at Sight from German into English and from English into German.

Two examination papers.

Greek.

Homer, Iliad XXII (Pitt Press Series, Camb. Univ. Press); Lysias, pp. 30-92, in Shuckburgh's Lysias, Orationes (Macmillan).

N.B.—Although the above editions are suggested, others may be used.

The examination will include a paper on grammar, composition and sight translation.

Either of the following books is recommended for grammar:—First Greek Grammar, Rutherford (Macmillan); Goodwin's Greek Grammar (Ginn & Co.).

Two examination papers.

History.

General History of Europe from the break-up of the Roman Empire to the present day.

No text-book is prescribed. Such a book as J. H. Robinson's Introduction to the History of Western Europe (new brief edition in one vol., Ginn & Co.) would furnish the candidate with an adequate basis of knowledge. G. B. Adam's European History, an Outline of its Development, would also be found useful. The student will find Robinson's Readings in European History a valuable supplement to whatever text-book he uses.

Candidates should read at least one of the works in each of the following groups:—

- Einhard's Life of Charles the Great (tr. S. E. Turner, American Book Co., or W. Glaister, Bell & Son); Memoirs of the Crusades (Everyman's Series); Froissart's Chronicles (Everyman's Series).
- (2) Machiavelli's Prince (Everyman Series); Macaulay's Essays on Machiavelli and on Ranke's History of the Popes; Motley's Rise of the Dutch Republic, Part III (Everyman's edition, vol. II).
- (3) Macaulay's Essays on the War of the Succession in Spain and Frederick the Great; Carlyle's French Revolution.
- (4) A. W. Kinglake's Eothen; G. M. Trevelyan's Garibaldi and the Thousand.

One examination paper.

Latin.

Cicero, De Amicitia, Ed. Shuckburgh (Macmillan). A book of Latin Poetry (Macmillan), Part I.

The examination will include a paper on grammar, composition and sight translation.

The grammar recommended is New Latin Grammar by Sonnenschein (Oxford Clarendon Press).

Two examination papers.

Mathematics.

Algebra.—Hall and Knight's Elementary Algebra (omitting chapters 40-44, inclusive), or the same subject matter in similar text-books, and the elements of Graphical Algebra, particularly the graphs of the straight line, circle, parabola, ellipse, and hyperbola, and the curve $y=ax^3+bx^2+cx+d$, with applications to such problems as the construction of tangents and the determination of maxima and minima.

Suggested Text-book: H. S. Hall, A Short Introduction to Graphical Algebra (Macmillan).

Plane and Solid Geometry.—Hall and Stevens' School Geometry to Theorem 98, inclusive, omitting pp. 319 to 346, inclusive.

Trigonometry.—Hall and Knight's Elementary Trigonometry, Chapters I to XVI, inclusive, and pp. 198, 199, or Hall and Knight's Elementary Trigonometry, revised Canadian edition, Chaps. I to XIII, inclusive, and pp. 204, 205.

Two examination papers, one on Algebra and one on Geometry and Trigonometry.

Four-figure mathematical tables will be provided.

Physics.

A general knowledge of the more important principles of elementary physics will be required.

Text-book:—Kimball, College Physics (Henry Holt & Co., New York, 1912).

Laboratory Manual: First Year Course in Experimental Physics (Elementary Section), Renouf Publishing Co., Montreal.

The student's notebook, setting forth his own laboratory work, certified by the Instructor and Principal of the School, must be forwarded before the examination to the Registrar for the examiner's valuation.

Minimum laboratory work required: all the starred experiments in the manual.

One examination paper.

Spanish.

Two papers will be set as in the Junior Matriculation, but the examination will be of a more advanced character.

Text-books prescribed:—Baroja's "Zalacain el aventurero" (Heath & Co.); Azorin's "Las Confesiones" (Heath & Co.).

"Temas españoles," Crawford (H. Holt & Company).

ENTRANCE SCHOLARSHIPS

Unless otherwise stated, applications for these scholarships must be made to the Registrar before August 1st.

Unless otherwise stated, the word "Matriculation" is used below to denote either the University Matriculation Examination or the Provincial High School Leaving Examination, both of which are recognized for entrance scholarships.

Applicants who have written the High School Leaving Examination should send a certified copy of their examination marks to the Registrar's Office before August 1st.

GENERAL REGULATIONS

- 1. Scholarships will be awarded only if an adequate standard is attained.
- 2. In order to retain his scholarship a successful candidate must proceed regularly with his college course to the satisfaction of the Faculty.
- 3. Entrance Scholarships may occasionally be held over for a year if the winner is preparing for Senior Matriculation or an equivalent examination. For permission apply to the Registrar.
- 4. The annual income of the scholarships will be paid in two instalments, viz.:—In October and February, about the 20th of each month.

The Ottawa Valley Exhibitions

These three exhibitions are:-

- The P. S. Ross Exhibition, of the value of \$100, founded by Mr P. D. Ross, B.A.Sc., in memory of his father, the late Mr. P. S. Ross.
- The Ottawa Valley Graduates' Society Exhibition of the value of \$75.
- 3. The Dr. H. Ami Exhibition, of the value of \$50, given by Mrs. H. Ami in memory of her husband, the late Dr. H. Ami.

These exhibitions are given through the Ottawa Valley Branch of the Graduates' Society and are open only to bona fide residents of the Ottawa Valley. The exhibitioners are selected by the University from candidates who have written (1) The McGill Junior Matriculation Examination or (2) The Quebec High School Leaving Examination or (3) The Ontario Middle School Examination. In exceptional cases a candidate who has written the McGill Senior Matriculation or the Ontario Upper School Examinations may be considered.

The Sidney J. Hodgson Exhibitions

Two exhibitions, one of \$200 and one of \$150, were founded by Arthur J. Hodgson, Esq., in memory of his son, Sidney James Hodgson, a student of the First Year in Arts, who was killed in action on September 27th, 1918, while serving in the 66th Battery of the Canadian Field Artillery. They are open to pupils of Westmount High School who have been in attendance for at least one year, and are awarded on the result of the

June Matriculation Examination to the two pupils who obtain the highest and the second highest percentage, respectively, on the subjects required for entrance to the Faculty of Arts and Science, and who attend the University during the ensuing session.

Bursaries Granted by the Imperial Order of the Daughters of the Empire

These bursaries of the annual value of \$300, tenable for four years at any university, are open to the sons and daughters of deceased or permanently or seriously disabled soldiers and sailors. At least one is available for each Province each year. Information may be obtained from the Provincial Educational Secretary of the Order in any Canadian Province. In Quebec the address is Room 1111, Mount Royal Hotel, Montreal.

Scholarship Granted by the Graduates' Society of the District of Bedford

This scholarship has an approximate value of \$140 and is awarded annually to a "matriculated student in Arts and Science whose parents reside in the District of Bedford and whose candidature has been approved by a committee of the Society."

Narcissa Farrand (Mrs. N. Pettes) Scholarship

This scholarship, of \$300 (\$150 for two years), founded by Mr. and Mrs. H. V. Truell, of Sweet Acre, Knowlton, Que., and endowed by them with the sum of \$7,000 out of the Narcissa Farrand Fund, is awarded annually to the candidate from the Eastern Townships who obtains the highest marks at the Arts and Science Matriculation Examination in June, and who has had his domicile in the Eastern Townships for five consecutive years immediately preceding the examination.

The Grace Fairley Trafalgar Scholarship

Founded in 1913 by certain friends and former pupils of the late Miss Grace Fairley, to signalize her long and faithful service to education as head of the Trafalgar Institute. It is of the value of \$110, is tenable for one year only, and is awarded annually to the student of Trafalgar Institute who obtains the highest marks in the June Matriculation Examination and enters the Faculty of Arts and Science.

Scholarship for Holders of Intermediate Diplomas

(Not available for the 1936-37 session)

A scholarship of \$150 is offered in the Faculty of Arts and Science to holders of Intermediate diplomas obtained after a course of study in Macdonald College.

Candidates must apply through the Dean of the School for Teachers before May 1st, and must satisfy the entrance requirements of the Faculty of Arts and Science and declare their intention to proceed to a First Class High School diploma.

The scholarship is awarded on the academic subjects of the examination for the Intermediate diploma; but although the practice marks are not taken into account directly, the opinion of the Macdonald College staff as to the general fitness of the applicant for a University course is considered. If there is no applicant from the graduating class in any year, application from graduates of previous years are considered on their merits.

Holders of this scholarship are permitted to count practice teaching and post-graduate work towards the fulfilment of their agreement to teach for a period of three years in the Province of Quebec.

The Sir William Macdonald Entrance Scholarships in Arts and Science

Five scholarships of \$150 each, endowed by Sir William Macdonald, and open only to men, are awarded upon the June Matriculation results and are tenable in the Faculty of Arts and Science. Three of the five are given to candidates not domiciled in the Island of Montreal.

University Entrance Scholarships in Arts and Science

Three scholarships of the value of \$100 each and two of the value of \$75 each (one of each value open to candidates not residing on Montreal Island) are offered for entrance to the Faculty of Arts and Science, and are awarded on the result of the Matriculation Examination in June.

Royal Victoria College Entrance Scholarships

Two scholarships, open to women only and conditional on residence in the Royal Victoria College, are offered each year, one of the value of \$200 and one of \$100. These are awarded on the result of the Matriculation Examination.

The Hon. Robert Jones Scholarship

THE HON. ROBERT JONES SCHOLARSHIP, valued at \$125 per annum, "is granted from time to time to some poor student for the full term of study in the Faculty of Arts and Science or Engineering."

Application for this scholarship should be made before August 1st through the Dean of the Faculty of Arts and Science or Engineering, as the case may be. The scholarship is not continued if the standing of the holder proves to be unsatisfactory.

The Robert Bruce Bursaries and Scholarships

One bursary of \$100 is open each year to "young men and women of promising abilities but of straitened circumstances in Arts and Science or Engineering."

One scholarship of \$100 for one year is awarded for high standing in the June Junior Matriculation Examination.

For the first twenty-five years students of Scottish extraction will be given the preference.

The Lord Atholstan Scholarship

- 1. This scholarship, of the value of \$1,000, has been given by the Right Honourable Lord Atholstan for competition among the pupils of Huntingdon Academy who have taken their full high school course of study in that institution. It is awarded to the pupil in this category who obtains the highest standing at the June Matriculation Examination and attends McGill University as a full undergraduate during the subsequent session.
- 2. The holder will receive \$250 a year for four years, but the scholarship will be forfeited at any stage through failure to satisfy the regulations of the University regarding advancement from year to year. The annual amount will be paid in four equal instalments.

The Edith Silver Memorial Scholarship

1. This scholarship of \$100 founded by The Delta Phi Epsilon Sorority, is awarded on the result of the June University Matriculation Examination or the High School Leaving Examination of the Province of Quebec covering the subjects required for admission to the Faculty of Arts and Science.

2. It is open to women students who obtain over 70% of the total marks possible and is awarded to the applicant who stands highest in this division and needs assistance to undertake the course.

The Isabella C. MacRae Scholarship

This scholarship of \$175 is open to residents of Maxville, Ont., who have satisfied the requirements for entrance to McGill University. Should there be no applicants from this locality for six years, the scholarship will be open to any resident in Ontario.

The Christie-Storer Chapter Scholarship

A scholarship of the value of \$150 is given by the above-named Chapter of the I.O.D.E. to the pupil of St. Lambert High School who stands highest in the June Matriculation Examination each year, provided that the pupil's aggregate is at least 700 marks out of a possible 1,000.

Canadian Pacific Railway Scholarships

Scholarships covering one year's tuition in the Faculty of Arts and Science and four in Chemical, Civil, Mechanical, or Electrical Engineering, or five years in the School of Architecture are awarded annually by the Canadian Pacific Railway Company. These are open for competition to apprentices and other employees of the Company under twenty-one years of age, as well as to minor sons of employees. The scholarships are normally awarded upon the results of the University Junior Matriculation Examination or the High School Leaving Examination of the Province of Quebec in June, but may be awarded upon the results of Matriculation examinations of other provinces, provided that the examination papers written are those required by McGill University and that a list of these papers is submitted with the application for approval by the University. Forms of eligibility and full particulars as to number of scholarships available, etc., may be obtained from Mr. F. J. Curtis, Staff Registrar and Secretary, Pension Department, C.P.R. Offices, Montreal. Applications, accompanied by statements of eligibility from Mr. Curtis, must reach the Registrar's Office before May 15th.

The Beatty Scholarships

Two scholarships, of the value of \$600 each, have been founded by Sir Edward Beatty, Chancellor of the University. The scholarships are payable at the rate of \$150 per annum for four years, and are tenable only in the Faculty of Arts and Science, one by students pursuing a

course in Honour Classics (Greek and Latin), the other by students studying Honour Mathematics or Honour Mathematics and Physics, throughout four years. The award is made on the standing of the candidates in the McGill Matriculation or Quebec High School Leaving Examination, and in a special examination in June. In special cases applications may be considered from candidates who are writing the matriculation examinations of other provinces. These candidates must also write the special examination. The special examination is, in the case of Classics, in the form of two papers on prose and sight work and, in the case of Mathematics, of a special three-hour paper on topics of Algebra, Geometry and Trigonometry of the standard of Intermediate Mathematics (see page 80). The special examination must be written by every candidate.

Applications must reach the Registrar's Office before May 15th.

These scholarships are open only to male students, educated in Canadian schools, whose parents are British or Canadian born.

The holder of the scholarship must read for Honours in the subject in which he won the scholarship.

Affiliated Theological College Scholarships

The United Theological College Scholarships.—The Board of Governors of the United Theological College offers scholarships for the payment of fees of undergraduates in Arts and Science who are registered at this College as in training for the study of theology with a view to the Christian Ministry and who have passed with credit the sessional examinations. For particulars, application should be made to the Principal, 3506 University Street, Montreal.

PRESBYTERIAN COLLEGE SCHOLARSHIP.—The Board of Management of the Presbyterian College offers a number of scholarships for the payment of fees of undergraduates in Arts and Science who are registered at the Presbyterian College as in training for the study of theology with a view to the Ministry and who have creditably passed the sessional examinations. For further particulars, application should be made to the Principal, the Presbyterian College, 3485 McTavish Street, Montreal.

95

APPLICATION FOR ADMISSION

Application forms for all years in the Faculty of Arts and Science, and for the First Years in Engineering and Medicine may be obtained from the Registrar's Office. Application for admission to other faculties or years should in the first instance be made by letter to the Registrar.

ADMISSION FROM OTHER UNIVERSITIES

A student of another university applying for exemption from any subject or subjects which he has already studied is required to submit with his application a Calendar of the University in which he has previously studied, together with a complete statement of the course he has followed and a certificate of the standing gained therein.

MEDICAL EXAMINATION

In order to promote as far as possible the physical welfare of the student body, men students of the First and Second Years and women students of the First and Third Years in every faculty, and all students coming to the University for the first time, are required to be medically examined. The hours of such examination are announced at the beginning of the session. Any student who has failed to comply with this regulation before the 1st of November will be fined \$5. Any student who has failed to comply before the 8th of November will be fined an additional \$5. Any student who has failed to comply before the 15th of November will be suspended. Re-examinations are held frequently throughout the session for those students who are of low category, or who are suffering from physical disability.

Students of all years, who wish to engage in athletic activities, are also required to be medically examined.

VACCINATION

All students entering the University for the first time are required to present a certificate, or other satisfactory evidence, of successful vaccination within seven years, or of insusceptibility to vaccine within five years. Failing this, students must be vaccinated at once in a manner satisfactory to the medical examiner.

The penalties for non-compliance with this regulation are those stated above for the medical examination.

HEALTH

Provision is made by the Department for the care of the health of undergraduates during the session. If a student's admission to Hospital is requisitioned for by the Department, but not otherwise, one-half of all public ward charges is met by the University. A leaflet and handbook concerning this service and the general work of the Department are distributed at the opening of the session.

FACULTY OF ARTS AND SCIENCE

The undergraduate work of the University in the Humanities or Arts, in Pure Science, and in Commerce, is done in McGill College, usually called the Faculty of Arts and Science. The Faculty has, for administrative purposes, three divisions, the Arts Division, the Science Division, and the School of Commerce. The Arts and Science divisions have each a Dean, the School of Commerce a Director. The Faculty as a whole controls all the undergraduate work in these divisions. The Arts Division supervises the work of all students reading for the degree of Bachelor of Arts (B.A.), the Science Division that of all students reading for the degree of Bachelor of Science (B.Sc.), the School of Commerce that of all students reading for the degree of Bachelor of Commerce (B. Com.). Details of the requirements for the degree of B. Com. are given on pages 180 to 202.

Women Students.

Women are admitted to the courses and to the degrees of the Faculty on the same terms as men, but in the more elementary courses they are usually taught in separate classes.

Entrance Requirements.

Students may be admitted into the Faculty as full undergraduates after passing either the Junior or the Senior Matriculation Examinations or equivalent examinations, in the requisite subjects (See pages 71 to 89). A student with incomplete matriculation qualifications is not admitted as an undergraduate.

Period of Study for Degree.

The bachelor's degree may be obtained only by students who have regularly attended the prescribed courses for at least four years after being admitted into the first year or for at least three years after being admitted into the second year. Candidates are only admitted to advanced standing in the third year under exceptional circumstances and at least two full years of resident study are required for the Bachelor's degree. Such students must also obey the regulations of the Faculty governing undergraduate courses of study.

Classes of Students in the Faculty.

(1) Undergraduates: Students with complete matriculation qualifications taking the regular work of their year towards a degree. (2) Limited Undergraduates: Students with complete matriculation qualifications who have been given the permission of the Dean of the Faculty to distribute the four years' work over five or more years (but not more than eight years), on the understanding that the sequence of courses conforms to the regular undergraduate rules and time table.

Limited Undergraduates are not eligible for scholarships, exhibitions, bursaries or prizes of any description and may not read for an Honour Degree.

(3) Partial Students: Students not studying for a degree who are allowed to take one or more lecture courses. Partial students must obtain the Dean's permission to register and must satisfy the Chairmen of the Departments concerned that they have sufficient ability to do the work of the courses they desire to take. A student who has tried and failed to matriculate is not allowed to register as a partial student.

In the courses they are taking, partial students must fulfil all the requirements of classroom work and tests prescribed for regular students.

Subject to the above limitations, lectures are open to partial students in both honour and general classes, but no course or courses taken by any such students can count for a degree except by virtue of a special vote of the Faculty. Partial students are not eligible for medals, scholarships, exhibitions, or prizes.

AGE OF ADMISSION

Except under special circumstances, no student under the age of sixteen is admitted to the First Year, or under the age of seventeen to the Second Year.

DEGREES OFFERED

The Faculty of Arts and Science offers courses of study leading to three degrees:

Bachelor of Arts.
Bachelor of Science.
Bachelor of Commerce.

APPLICATION FOR ADMISSION TO THE FACULTY OF ARTS AND SCIENCE

All applications to enter the Faculty of Arts and Science must be made on forms which may be obtained from the Registrar's office. Completed applications must reach the Registrar before September 9th.

The number of admissions is limited and the College is not bound to accept applicants who have passed the required examinations.

ENTRANCE REQUIREMENTS

- 1. A student may apply for admission to the First Year of the Faculty of Arts and Science after passing in the required subjects of the Junior Matriculation Examination or one of the Examinations recognized by the University as the equivalent of Junior Matriculation.
- 2. A student may apply for admission to the Second Year of the Faculty of Arts and Science after passing in the required papers of the Junior and Senior Matriculation Examinations or their recognized equivalents. Only in exceptional circumstances is a student who has not written and passed the Junior Matriculation Examination admitted by Senior Matriculation to the Second Year. At least a good average second class standing in Senior Matriculation or its equivalent is required for entrance to the Second Year.
 - 3. Full details of these Examinations are given on pages 70 to 88.

REGISTRATION

Students whose applications (see page 97) have been accepted register in the Arts Building on September 26th, 27th, or 28th, between the hours of 9.00 a.m. and 4.30 p.m., and until noon on September 28th.

Upper year students also register in the Arts Building at the same time.

After September 28th all registration is done in the Registrar's Office and a special late registration fee must be paid (see page 99).

No student will be admitted after October 15th except by special permission of the Dean.

Women students of the Faculty, after registration, are required to enter in the roll book of the Royal Victoria College their names, home addresses and addresses in Montreal. Students of the Royal Victoria College not residing with their parents or guardians in Montreal, who do not apply for residence in the College, are required to submit their plans for residence in writing to the Warden and to obtain written approval.

ADVISERS

At the time of registration each student entering the First Year is interviewed by a member of the Committee of the Board of Student Advisers. At this interview the student is given any information or advice that he may need and is assisted in the selection of his courses. At the same time he is assigned to an adviser whom he may consult at any time and should consult at least once a month.

MEDICAL EXAMINATION, VACCINATION, ETC.

See page 95.



FEES

Tuition Fees

1.	Annual undergraduate fee for B.A. students	\$215.00
	By instalments: Each of two instalments	110.00
	Annual undergraduate fee for B.Sc. students	235.00
	By instalments: Each of two instalments	120 00

2. Limited Undergraduates

In the First and Second Years, per course (B.A. students)	\$45.00
In the Third and Subsequent Years, per course (B.A. students)	55.00
In the First and Second Years, per course (B.Sc. Students)	50.00
In the Third and Subsequent Years, per course (B.Sc. students)	60.00

3. Partial Students

Per hour of instruction per week for a full course	\$20.00
The total Partial Fee will not exceed the full undergraduate fee.	

- 4. Students of the Faculty of Arts and Science who are permitted by the Dean to take lectures in the School of Commerce as part of their regular course, pay an additional fee of \$10.00 for each course in Commerce.
- 5. Graduates of the Faculty taking undergraduate lectures pay one-half the partial fee, with a maximum one-half that of the regular undergraduate fee. Graduates of other Universities attending full courses in affiliated theological colleges are allowed the same privilege. This does not apply to courses for which there is a special fee.

Other University Fees

6.	Late registration, after September 28th	\$ 5.00
	Late registration, after October 7th	10.00
	Supplemental Examinations, each paper	10.00
	Receipts for supplementals must be shown to the Dean's	
	Office before the examination.	
	Duplicate Graduation Diploma	10.00
	Conferring degree in absentia	10.00
	Certified copy of student's record	1.00
	Additional copies (at same time)	.50
	Fine for late medical examination (see page 95)5.00 o	r 10.00

7. Caution Money. Every student is required to make a deposit of \$10.00 as Caution Money to cover damage done to furniture, apparatus, books, etc. This amount, less deductions, is returned at the close of the session.

Students' Activities.

- 8. A sessional fee of \$17.00 is payable by all men undergraduates and \$12.00 by all women undergraduates, for the support of student organizations, for the rinks and tennis courts, and for admission to all home games under the control of the Athletic Board.
- 9. Partial students pay \$3.00 for athletics and athletic grounds. If they desire such of the privileges of Section 8 as are open to them, an additional \$9.50 is charged for men students and \$5.50 for women students.

General Regulations.

10. Dates of Payment. Fees are due and payable at the Bursar's Office between the hours of 9 a.m. and 1 p.m. and 2.30 to 4 p.m. on the following dates:—

Women students	Thursday, October 3rd Friday, October 4th
Men students	Tuesday, October 8th Wednesday, October 9th Thursday, October 10th

or, if desired, fees may be remitted by mail before the above dates.

The second instalment of tuition fees is due and payable on February 1st. An additional \$2.00 is charged for payment after the specified dates.

- 11. Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of Regulation 10.
- 12. Any student who fails to pay his fees within a month of the prescribed date is suspended until all the fees due have been paid.
- 13. All fees are payable in Canadian currency.

STUDENTS' EXPENSES

1. Board and Residence.

For Men

No college residences have as yet been built for men students, but dormitory accommodation for about sixty is provided in Strathcona Hall, the home of the Student Christian Association of McGill University. Full particulars may be obtained from the Secretary of the Association, 772 Sherbrooke Street West, Montreal, who will also make

arrangements to have students who are strangers to Montreal met on arrival and helped to secure lodgings, if due notice is sent of the station and time of arrival.

Before the opening of the session each year a list of Approved Lodgings, which have been inspected by a representative of the University, is issued by the Lodgings Committee. This list, which gives details of rooms, meals, prices, etc., may be consulted in the Registrar's Office, the Students' Union, Strathcona Hall, and other University Buildings. The list is not sent by mail.

Board and lodging for men may also be obtained in the Diocesan College, the United Theological College, and the Presbyterian College, which are theological colleges affiliated with the University.

Board is furnished in the McGill Union at low rates. The dining room accommodates over 120 students. There is also a lunch counter.

The cost of board and lodging in approved rooms varies from \$35 to \$60 per month. Separately, good board costs from \$25, and a room from \$12 upwards per month.

For Women.

See Royal Victoria College, page 176.

2. Approximate Total Annual Cost.

In all years the session extends approximately from October 1st to May 15th. At the end of their final year students usually remain for Convocation, which takes place about the 29th of May.

	B.A.	B.Sc.
THE STATE OF STATE OF STREET STREET, S	Students	Students
Tuition fees	\$215	\$235
Athletics, Union, etc	17	17
Board and lodging (average)		300
Books, apparatus, etc	18	23
Total	\$550	\$575

Undergraduates in Arts and Science residing in affiliated theological colleges, with a view to a course in theology, are able to obtain board and lodging for less than the minimum shown above, and the expense under the head of "Books" can be reduced by purchasing these second-hand.

In the above estimates no account is taken of personal expenses such as the cost of clothes, laundry, amusements, etc., nor of the caution money deposit of \$10.00. (See page 99.)

GENERAL INFORMATION ADVANCED COURSES IN THE FIRST YEAR

The Departments giving instruction in the First Year offer special lectures or work of a more advanced character to students with adequate qualifications.

These advanced courses are generally arranged by the Departments when lectures actually commence and there is in such cases no separate registration for them.

GENERAL DEGREES AND HONOUR DEGREES

An undergraduate in the Faculty of Arts and Science may proceed to a General Degree, involving the study of a fairly wide range of subjects with a limited amount of specialization (see pages 107, 108) or to an Honour Degree, which after the First Year necessitates almost complete specialization in either one or two subjects (see pages 105, 111).

ATTENDANCE

1. Students are required to attend at least seven-eighths of the total number of lectures or laboratory periods in any one course.* Those whose unexcused absences exceed one-eighth of the total number of lectures in a course are not permitted to come up for the regular examination in that course, and those whose unexcused absences have exceeded one-fourth must repeat the work in that course.

Excuses on the ground of illness, domestic affliction or accident are dealt with only by the Deans of the respective Faculties.

Excuses for absences in excess of one-eighth are entertained only in cases of serious illness (which must be vouched for by a proper medical certificate), domestic affliction, and such other cases as are provided for by special regulations of the Faculty. Medical certificates covering absences must be presented at the Dean's office by the student immediately after his return to University work. Such certificates are filed, and, if they are accepted, the Dean gives the student a statement excusing the absences covered, which must be shown to all the professors concerned as promptly as possible.

2. Credit for attendance at any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. These cases are dealt with by the Dean of the Faculty.

^{*}Physical education is included under this regulation.

3. Lectures commence at five minutes after the hour, on the conclusion of the roll call. After the commencement of a lecture students are not allowed to enter, except with the permission of the Professor. If permitted to enter, they report themselves at the close of the lecture and are marked "late." Two lates count as one absence. Lectures end at five minutes before the hour. In cases where it is impracticable to record late attendance, students who are not present at the commencement of the lectures are marked absent.

CHANGING COURSES

Students may change the courses for which they have registered provided that the changes do not conflict with the regulations and that the change is made within twenty days of the commencement of the session. No changes can be made after this period. Application to change courses must be made to the Registrar's Office.

PASS MARK AND CLASSES

The pass mark in all examinations is 50 per cent, and the marks for first and second class standing are 75 per cent and 60 per cent respectively.

INTERIM TESTS AND PROBATION

There are two regular interim tests for all students of the First Year, the first being held near the middle of November and the second during the week preceding the Christmas vacation.

The test is usually the equivalent of a standard examination of one hour.

All students who fail in more than one-third of these tests are placed on probation for the rest of the academic year. A student on probation is not allowed to become a member of a College athletic team, to hold office in any College society, or to take part in any major student activity. A student who fails in one-half or more of these tests is dropped from the University for that year and is not allowed to re-enter the University except with the consent of the Faculty.

MID-SESSIONAL EXAMINATIONS

There are no regular mid-sessional examinations in January except in courses which are given only in the first term, and in these courses the examination may be held in May with the other final examinations if the Department so desires. Members of the teaching staff may, however, give such interim examinations as they think necessary from time to time.

FINAL EXAMINATIONS

The final examinations are held in May.

SUPPLEMENTAL EXAMINATIONS

The regulations governing supplemental examinations are as follows:—

A student conditioned in a course may remove the condition during the next Calendar session by passing—

- (1) the supplemental examination in September following, or,
- (2) a special supplemental examination in February following, or,
- (3) upon application to the Dean and on payment of the fee prescribed for a special supplemental (always on the understanding that there is no conflict in the time-table), at the sessional examination in May. If by the close of that session the condition has not been removed, the student may take, within the Calendar session next following, but not thereafter, one of the three separate examinations as enumerated above. All applications for supplemental examinations must be made to the Dean in writing.

Applications to write supplemental papers in September must reach the Dean's Office before September 1st.

Any student who fails in more than one-half of his subjects in the First Year is refused permission to return to the College. These students are not precluded, however, from entering the Second Year if they pass the full set of examinations required for Senior Matriculation. Any student who fails in one-half or more than one-half of his subjects in the Second, Third or Fourth Years will be obliged to repeat the Year.

The fee for supplemental papers and for special supplementals is \$10.00 for each paper. These fees must be enclosed with the written application.

ADVANCEMENT FROM YEAR TO YEAR

Advancement to the Second Year.—A student may proceed to the Second Year with any one full course, or two half courses, unpassed.

Advancement to the Third Year.—A student may proceed to the Third Year with any one full course, or two half courses, unpassed, unless that full course, or one of the two half courses, belongs to the First Year.

Students of good standing, however, who have succeeded in passing all courses required in the Second Year may be allowed by special permission of the Dean to proceed into the Third Year carrying a condition in one full course, or in two half courses, from the First Year.

Advancement to the Fourth Year.—A student may proceed to the Fourth Year with any one full course, or two half courses, unpassed, unless that full course, or one of the two half courses, belongs to the First or Second Year of his course.

Repeating a Year.—By special permission of the Dean, a student who is permitted to repeat a Year may, on application:—

- (a) Be exempted from attending lectures and passing examinations in the courses in which he has already passed;
- (b) Be permitted to take, in addition to the courses in which he has failed, one of the courses of the following year in his course.

N.B.—The choice of courses must involve no conflict of hours as printed in the time-table.

HONOUR COURSES FOR THE DEGREE OF B.A.

Honour courses may be elected in any two combined cognate departments or in any single department.

The arrangement of combined honour courses is left to the departments interested, and in cases of doubt or disagreement is referred to the Faculty for final decision.

In the Honour courses in combined departments, when the departments are divided into two sections (as Classics into Greek and Latin, Economics and Political Science into Economics and Political Science), the graduate's certificate designates by name the sections in which Honours have been taken (e.g., First Class Honours in Greek and Second Class Honours in Latin); but in Honour courses in combined departments, where the departments are not divided into sections (as English, History, Sociology, etc.), the graduate's certificate indicates that the work done in each of the departments amounts to only half of a full Honour course in that department—e.g., First Class Honours in English (one-half) and History (one-half), or First Class Honours in English (one-half) and Second Class Honours in History (one-half).

Honour courses normally begin in the Second Year. Most departments giving instruction in the First Year, however, offer advanced courses to the better students in that year.

A Second Year General student who shows exceptional merit in any subject in his Second Year examinations may, if he so wishes, and if the Chairman of the Department is satisfied that his knowledge of the subject is sufficient to enable him to reach the standard of Honours by two more years' study, be allowed to take up the Honour course in that subject at the beginning of his Third Year.

Honour lecture courses are open to properly qualified general students.

The conditions for entering Honour courses in the Second Year are as follows:—

- (a) A student must not have failed in more than one subject at the final spring examinations in the First Year.
- (b) The sanction of the Dean and of the Chairmen of the Departments in which Honours are elected must be obtained.
- (c) No student may take Honours in a subject in which he has failed to attain at least second class standing in his First Year.

Honour students who fail to attain second rank honour standing at the end of the Second or Third Year must revert to the General course in their next and following year or years, unless they obtain special leave to continue their honour work from the department or departments interested.

Honour courses in the Second Year consist of 15 hours and in each of the remaining two years 12 hours, covering lectures, conferences and tutorial classes. The work also involves wide reading and study in the subject, apart from the actual subjects of lectures, in accordance with a definitely prescribed programme.

Attention is drawn to the fact that lectures are not given on all parts of the work.

In the Second Year a student registering for Honours in one subject only, fulfils the requirement of fifteen hours by taking a minimum of two courses or six hours in his Honour subject, and, in addition, such other courses (bringing the total to fifteen hours) as the department under which he is studying may direct. A student registering for combined Honours in two subjects fulfils the requirements of fifteen hours by taking two full courses in each Honour subject, or twelve hours altogether, and, in addition, one other course, making a total of fifteen hours, as the two departments concerned may direct. A student who has failed in any such subject in the Third Year examinations is not allowed to continue his Honour course except with the consent of the Faculty.

Departments are at full liberty to recommend their Honour students to take one or more courses in cognate departments as the equivalent of courses in their own departments.

A student's whole record during his Second, Third and Fourth Years may be considered in awarding Honours at graduation.

Students in Honour courses who fail to attain second rank honours at graduation, or who only succeed in attaining second rank honours in one of two combined courses, must revert to the list of General students.

Honours are awarded by the Faculty on the recommendation of the department or departments in which Honours are elected.

The examinations for Honours are not conducted exclusively by persons who have given the courses.

COURSES FOR THE GENERAL B.A. DEGREE

In each of the First and Second Years five courses must be taken, *i.e.*, fifteen hours of class work per week; and in the Third and Fourth Years respectively, four courses (twelve hours). The third hour in each course each week may be devoted to group conferences.

FIRST YEAR

(a) Compulsory.

Latin or Greek. English 1 and 2. Mathematics.

But in the case of students who have already shown marked aptitude in languages and are permitted to take three languages (exclusive of English), Mathematics is not compulsory.

Physical Education (two hours per week).

(b) Elective.

Two of the following:-

History.

Greek or Latin (if not already taken).

French.

German.

Science (Physics or Chemistry 1 and 1C or Chemistry 16 or Botany 1 or Zoology 1 or Natural Science 1).

For the subjects required to be taken by students who wish to qualify for the First Class High School diploma of the Province of Quebec, see page 127.

Details of the work in each subject are given on pages 113 to 164.

SECOND, THIRD AND FOURTH YEARS

Students must choose two *Continuation Subjects* at the beginning of the Second Year, for continued study through the Second, Third and Fourth Years. A full course (or two half courses) must be taken *each* year in *each* of the subjects. The *Continuation Subjects* are those in Divisions I and II of the following list:

DIVISION I	Division II	DIVISION III	Division IV
English.	Economics.	Botany.	Education.
French.	History.	Chemistry.	Ancient History
German.	Mathematics.	Geology.	Physiology.
Greek.	Philosophy.	Physics.	
Latin.	Political Science.	Zoology.	
	Psychology.		

Sociology.

It is also required for this degree that every student shall pass one full course in a subject of science (Division III, of the above list), and at least one full course in a modern foreign language. If such courses have been passed in the First Year, there is no further requirement; if not, the courses may be taken in any subsequent year, though preferably in the Second Year. The requirement of a modern language is also fulfilled if the student elects such a course as one of the *Continuation Subjects*.

The additional courses necessary to make up the total required for each year may be chosen from any of the subjects in any of the Divisions of the above list. The choice, however, is subject to the approval of one of the Departments in which the student has chosen a *Continuation Subject*. A student may elect only those courses for which he has the prerequisites laid down by the Department in which such course or courses are given. Students are responsible for seeing that courses chosen do not conflict as regards hours of lectures or laboratory periods.

A course intended primarily for First Year students may be counted as a full course in the Second Year.

Physical Education is compulsory for all students in the Second Year, two hours a veek.

Students who are pursuing a double course in Arts and Science and Divinity (six years at least) may take in the Third and Fourth Years the courses which constitute the ordinary curriculum in Arts and Science, less a half course each year or a whole course in one year.

DISTINCTION IN THE GENERAL DEGREE

A student of sufficient merit who has completed the work for a general degree may be awarded either Distinction or Great Distinction at graduation.

These avards are based upon the student's record during his Second, Third and Fourth Years, and at least an average first class standing is required for Great Distinction and an average high second class standing for Distinction.

THE B.Sc. DEGREE

An undergraduate may read for either a General or an Honour B.Sc. degree, but the distinction between a General and an Honour student is not made intil the Second Year, so that there is one normal First Year curriculum. Special advanced courses in the First Year are, however, offered by nost departments to prospective honour students.

In any year a specially qualified student may be allowed upon the recommendation of the department concerned, to substitute a more advanced course for any of those listed.

FIRST YEAR

GENERAL AND HONOURS

*French 15 or German 3.
Mathematics 1.
Physics 1.
Chemistry 1 and 1C.
†Natural Science 1.

GENERAL AND HONOUR DEGREES

The general B.Sc. courses are intended to give a broad training in science and scientific method. For professional scientific work an honour degree is usually an essential preliminary.

A student desiring advice or guidance in his choice between the two degrees should consult the Dean of Science.

THE GENERAL B.Sc. CURRICULUM

SECOND YEAR

Five subjects are required. Three of these must be selected from Group I below. French 16 and German 4 (a combined course) are compulsory, unless the student is exempted from either or both by the departments concerned. One other Arts subject must be taken.

THIRD AND FOURTH YEARS

In each year a minimum of four subjects and five courses is required. Two subjects selected from Group I below must be continued through the Third and Fourth Years.

One non-continuation subject must be chosen from Group III, the others may be chosen from either Groups II or III.

Details of the courses are given on pages 113 to 164.

^{*}German must be taken by any student who has not matriculated in German, and French by any student who has not matriculated in French.

[†]In special cases a qualified student may be granted permission to substitute for Natural Science 1 either Botany 1, Geology 1, Physiology 1, or Zoology 1.

GROUP I (Continuation Subjects).

SUBJECT	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Biochemistry	see below†	1	2
Botany.	1, 2.	2 and 3 or 4.	4 and 5 or and 6.
Chemistry.	2 or 3, and 4.	2 or 3.	9, and (5, 5A) or
			(6, 8) or
			(5, 6 lectures
			only**).
Geology.	1, or 5 and 6	2 to 13	2 to 13
		(2 courses).	(2 courses).
Mathematics.	2.	3 or 4 or 5.	3 or 4.
Physics.	2.	3A, 3B, 4.	8A, 9, 11.
Physiology.	1.	1, or 2 and 3.	2 and 3, or (4-6)
Zoology.	1.	2 or 3.	2 to 6 (1 course)

†If Biochemistry is to be taken as a continuation subject in the Third Year, Chemistry 2 and Physiology 1 must be taken in the Second Year.

**With the consent of the Head of the Department.

Students who are qualified to do so may take more advanced courses than those set out above.

A student selecting Physics as a continuation subject must also select Mathematics in the first three years.

A student in the fourth year may be allowed to drop one of his continuation subjects and to take an equivalent amount of work in the other continuation subject.

GROUP II (Non-Continuation Subjects).

COURSES
1, 2.
1, 2, 3, 4, 5.
2, 3, 4, 5, 6, 8, 9, 10.
1 to 13.
1, 2, 3.
1.
2, 3, 4, 5.
2P, 2, 3A, 3B, 4,
5A, 8A, 9.
1, 2, 3, 4, 5, 6.
1, 2, 3, 4, 5, 6.

GROUP III (Arts Subjects).

Economics and Political Science.

Education.

English.

French.

German.

Greek.

In selecting courses students should consult the

History. departments concerned.

Latin.

Philosophy.

Psychology.

Sociology.

THE HONOUR B.Sc. DEGREE

Honour courses normally begin in the Second Year; but a student who has obtained the permission of the Dean to read for honours in Bacteriology, Biochemistry, Physiology or Zoology need not decide between these subjects until later.

The conditions for entering Honour courses are as follows:—

- (a) The sanction of the Dean and of the Chairmen of the Departments in which honours are elected must be obtained.
- (b) A student must not have failed in more than one subject at the final spring examinations in the First Year.
- (c) No student may proceed to read for honours unless he has obtained at least a second class standing in the first general course offered in the subject elected.

Honour students who fail to attain second class honour standing at the end of the Second or Third Year (and Third Year in the cases of Bacteriology, Biochemistry, Physiology and Zoology) must revert to the General Course in subsequent year or years, unless they obtain special permission to continue their honour work from the Department or Departments concerned.

Students in honour courses who fail to attain second class honours at graduation, or who only succeed in attaining second class honours in one of two combined courses, must revert to the list of General students.

Honours are awarded by the Faculty on the recommendation of the Department or Departments in which honours are elected. A student's whole record during his Second, Third and Fourth years may be considered in awarding honours at graduation. The examinations for honours are not conducted exclusively by persons who have given the courses. Attention is drawn to the fact that lectures are not given on all parts of the work.

ENGINEERING PHYSICS

This course is intended to train men for research or academic positions. It is available to

- (1) students in the Faculty of Arts and Science entering their third year who have satisfactorily completed the second year Honour Course in Mathematics and Physics.
- and (2) students in Engineering who have completed the first and second years with first or second class standing in Mathematics and Physics, subject to the approval of the Chairmen of the Departments of Electrical Engineering and Physics.

Third Year

Mathematics 6 and 7. Physics. 5A, 5B, 6B (or 8B). Electrical Engineering. 113, 114.

Fourth Year

Mathematics 10 or 11. Physics 6A, 7A, 7B, 8A, 8B (or 6B), 9, 10. Summer Thesis or Shop Work.

The student may now receive the B.Sc. degree with Honours in Mathematics and Physics. In his fifth year he may either proceed towards the M.Sc. degree taking some of the fourth year Electrical Engineering courses as advised by the Chairmen of the Departments of Physics and Electrical Engineering; or, if he has completed the first and second years in Engineering, he may proceed to the degree of Bachelor of Engineering in Electrical Engineering, taking such subjects of the third and fourth year courses in Electrical Engineering as are approved by the Faculty of Engineering.

CONCERNING STUDENTS WHO INTEND TO PROCEED INTO THE PROFESSIONAL FACULTIES

The Faculty of Arts and Science assumes no responsibility for arranging or directing courses of study for students intending, at the end of their First, Second or Third Year, to enter one of the other Faculties.

Such students are advised, before registering for the first time in the Faculty of Arts and Science, to acquaint themselves with the entrance requirements laid down by these other Faculties. They must consider the fulfilment of these requirements as only incidental to their work in Arts and Science; and they must follow the regulations of the curriculum as though they were proceeding to a degree in the Faculty of Arts and Science. All undergraduate students in the Faculty must register for one of the Bachelor's degrees offered, viz: B.A., B.Sc., or B.Com. Students who have successfully completed the First Year leading to the degree of B.A. or B.Sc. may apply for admission into the Faculty of Engineering, provided they have completed the course in English, Mathematics, Physics, Chemistry, and one other subject. Students who have successfully completed the first two years towards the B.Sc. degree or the first three years towards either the B.A. or the B.Sc. degree may apply for admission into the Faculty of Medicine or of Dentistry, provided they have successfully followed for one year the regular course in each of the following subjects:—Physics, Inorganic Chemistry, Organic Chemistry, and Biology.

Students who are preparing for entrance to the Faculty of Medicine are advised that they should not choose subjects which properly belong to the medical course, but should devote their time to securing a thorough preparation in the fundamental scientific and humanistic subjects.

Students completing three years in either the Arts or the Science Division of the Faculty of Arts and Science and two years in Medicine are entitled to apply to the Faculty of Arts and Science for the degree of B.Sc.

A minimum of two years in the Faculty of Arts and Science is required for admission into the Faculty of Law.

COURSES OF LECTURES IN ARTS AND SCIENCE

The hours of all General lectures and most of the Honour lectures are indicated. In the case of the other Honour lectures the hours are arranged by the several departments at the opening of the session.

DEPARTMENT OF BACTERIOLOGY AND IMMUNITY

Professor:—E. G. D. Murray.

Lecturers:—

{Frederick Smith.
John H. Glynn.

Demonstrators:—

{T. E. Roy.
D. H. Starkey.

Assistant Demonstrator:—Ruth P. Dow

(All lectures and laboratory courses are given in the Department of Bacteriology, Pathological Institute.)

Course 1. Elementary Medical Bacteriology and Immunity.

Thirty lectures and 60 hours' practical work, Commencing February 21st. Available to Medical students on the satisfactory completion of their

studies in Anatomy, Physiology, Histology and Bio-chemistry; also to students in their 3rd year in Arts and Science reading for B.Sc. Honours in Bacteriology and Graduate students.

Course 2. Applied Medical Bacteriology and Immunity and the Processes of Infectious Diseases.

Available to Medical students who have completed two years of clinical work,

Course 3. Bacteriology and Immunity for Honours B.Sc. (daily throughout the year; available only for Honours students in their Fourth year). 160 lectures and 852 hours practical work (full details of this course can be obtained from the Registrar's Office).

Text books:—Hans Zinsser & S. Bayne-Jones, Textbook of Bacteriology (Appleton); R. Muir & J. Ritchie, Manual of Bacteriology (Oxford University Press); R. T. Hewlett & James McIntosh, Manual of Bacteriology (Churchill); T. J. Mackie & J. E. McCartney, Practical Bacteriology (Livingstone); J. W. Bigger, Handbook of Bacteriology (Bailliere Tindall & Cox); W. H. Park & A. W. Williams, Pathogenic Micro-Organisms (Lea & Febiger); Hans Zinsser, Resistance to Infectious Diseases (Macmillan); W. W. C. Topley & G. S. Wilson, The Principles of Bacteriology & Immunity (Edward Arnold & Co.); W. W. C. Topley, An Outline of Immunity (Arnold); M. Langeron, Precis de Microscopie (Masson et Cie); A. Calmette, L. Negri et A. Boquet, Manuel technique de Microbiologie et Serologie (Masson et Cie); D. H. Bergey, Manual of Determinative Bacteriology (Williams & Wilkins).

CURRICULUM FOR B.Sc. HONOURS IN BACTERIOLOGY

Prerequisite:—An aggregate standing of high second class must be obtained in the subjects submitted for the First Year.

The Chairman of the Department should be consulted in selecting subjects to be studied in the Second and Third Years.

Students of Medicine who have done sufficiently well in their Medical Bacteriology and in their Medical studies in general will be admitted to Course 3.

GRADUATE COURSES

See page 395.

DEPARTMENT OF BIOCHEMISTRY

Professor:—J. B. Collip Associate Professor:—D. L. Thomson

Lecturers:—{Hans Selye L. I. Pugsley R. L. Kutz

DEMONSTRATOR: -O. F. DENSTEDT

1. General Physiological Chemistry:

- (a) Lectures: Monday, Wednesday, Friday at 9.
- (b) Laboratory: Two 3-hour periods weekly, selected from Monday and Friday mornings, Tuesday and Thursday afternoons.

Text-books:—Bodansky, "Introduction to Physiological Chemistry" (Wiley); Cameron, "Text-Book of Biochemistry" (Macmillan).

Note:—This course is given in the Autumn and Winter terms of the Faculty of Medicine, and begins before the opening of the Session in Arts and Science. Prerequisites are Chemistry 2, Physiology 1.

2. Endocrinology:

Lectures: Monday, Friday at 2.

Text-book:—Cameron, "Recent Advances in Endocrinology" (Blakiston or Churchill).

Note:—Students should have taken, or should take concurrently with this course, Biochemistry 1, Histology 1, Physiology 2 and 3.

3. Advanced Biochemistry:

Lectures: Tuesday, Thursday at 9.

Text-books:—Gortner, "Outlines of Biochemistry" (Wiley); Pryde, "Recent Advances in Biochemistry" (Blakiston); Hawk and Bergeim, "Practical Physiological Chemistry" (Blakiston).

Note:—Prerequisites are Biochemistry 1, Chemistry 4.

GRADUATE COURSES

See page 396.

HONOUR COURSE IN BIOCHEMISTRY

First Year

First year B.Sc.

Second Year

Zoology I, Botany 4A, Chemistry 2, 4 and 10, Physiology 1.

Third Year

Biochemistry 1, Physiology 2 and 3, Histology 1, Pharmacology.

Fourth Year

Biochemistry 2 and 3 and laboratory, Bacteriology 1.

Candidates for the Honour B.Sc. Degree in Biochemistry will be required to pass a general examination in Biochemistry in the 4th year; they are expected to attain at least second class standing in all subjects, and first class in Biochemistry 1.

DEPARTMENT OF BOTANY

PROFESSOR:—GEORGE W. SCARTH.

LECTURER:—R. D. GIBBS.

INSTRUCTOR:—JANE D. SPIER

DEMONSTRATOR:—J. H. WHYTE.

Natural Science I.

A conjoint course in Botany, Zoology, and Geology. Lectures Mon., Wed., Fri. at 12.

Prof. Scarth.

1. General Botany.

Tu., Th. at 9; laboratory Mon. 2-5.

Dr. Gibbs and Miss Spier.

2A. Histology and Microtechnique.

First term: Mon., Wed. at 11. Laboratory Tu. 2-5.

Miss Spier.

BOTANY

2B. Taxonomy of Flowering Plants.

Second term: Mon., Wed. at 11. Laboratory Tu. 2-5.

Mr. Whyte.

- 3. Comparative Morphology.

 Given in 1935-36; Not given in 1936-37.
- 3A. Plant Ecology.

First term: Mon., Wed. at 12. Laboratory Wed. 2-5.

Prof. Scarth and Staff.

- 3B. Mycology.

 Second term: Mon., Wed. at 12. Laboratory Wed. 2-5.

 Prof. Coulson (Macdonald College) and Miss Spier.

 Not given in 1935-36; Given in 1936-37.
- **4A.** General Physiology.

 First term: Tu., Th. at 12; laboratory Th. 2-5.

 Prof. Scarth and Mr. Whyte.
- 4B. Plant Physiology.

 Second term: Tu., Th. at 12; laboratory Th. 2-5.

 Prof. Scarth and Dr. Gibbs.
- Plant Biochemistry.
 Tu., Th. at 11; 4 laboratory hours to be arranged......Dr. Gibbs.
 Biological Colloquium.

HONOUR COURSE IN BOTANY

The Staff and Graduate Students.

First Year: As for general B.A. or B.Sc.; Natural Science 1 or preferably Botany 1 should be included.

Second Year: Botany 1 (if not already taken), Botany 2A and 2B.

Third Year: Botany 3 or 3A and 3B, 4A and 4B.

Fourth Year: Botany 3 or 3A and 3B, 5.

The year and order in which courses are taken may be modified to suit individual requirements. Botany 1 is a prerequisite to all other courses except 2A, 2B and 4A.

The courses to be taken by an honours student in the 2nd, 3rd or 4th year must be approved by the Head of the Department before the student registers. Zoology 1, Chemistry 2 and 4, and Genetics 1 are among the courses recommended.

Other courses to be selected with the advice of the Department.

GRADUATE COURSES

See page 396.

TEXT BOOKS

General Botany: Chamberlain—Elements of Plant Science (McGraw-Hill); Coulter, Barnes & Cowles—Text book of Botany (Amer. Book Co.); Holman & Robbins—Text book of General Botany (Wiley); Sinnott—Botany, Principles & Problems (McGraw-Hill); Strasburger—Text book of Botany (Macmillan); Tansley—Plant Biology (Allen & Unwin).

Plant Anatomy: Eames & MacDaniels—Introduction to Plant Anatomy (McGraw-Hill).

Physiology and Biochemistry: Scarth & Lloyd—General Physiology (Wiley): Text books of Plant Physiology by Maximov (McGraw-Hill), James (O.U.P.), Palladin (Blakiston), Raber (Macmillan), and Miller (McGraw-Hill); Kostychev—Chemical Plant Physiology (Blakiston); Onslow—Principles of Plant Biochemistry (C.U.P.); Onslow—Practical Plant Biochemistry (C.U.P.); Haas & Hill—Chemistry of Plant Products (Longmans).

Taxonomy: Gray's Manual (American Book Co.); Spotton et al.—Wild Plants of Canada (Gage).

Ecology: Braun and Blanquet.—Plant Sociology (McGraw-Hill).

DEPARTMENT OF CHEMISTRY

DIRECTOR AND MACDONALD PROFESSOR OF INORGANIC CHEMISTRY:—
F. M. G. JOHNSON.

MACDONALD PROFESSOR OF PHYSICAL CHEMISTRY:—O. MAASS.

E. B. Eddy Professor of Industrial and Cellulose Chemistry:—
Harold Hibbert

PROFESSOR:-N. N. EVANS.

ASSOCIATE PROFESSOR:—W. H. HATCHER.

Assistant Professors:—

(C. F. H. Allen.
E. W. R. Steacie.
J. H. Mennie.
W. H. Barnes.

LECTURER:—J. B. PHILLIPS.

1. General Chemistry.

1. Lectures, Mon., Wed., Fri.
Section A.—Professor Hatcher at 10.
Section B.—Professor Evans at 2.

Text-books:—Richardson—General Chemistry, revised edition (Henry Holt & Co.) Macpherson and Henderson—An Elementary Study of Chemistry, Introductory College Course. (Ginn & Co.).

1C-Gen. Chem. Laboratory, Tu. or Th. or Fri., 2-5.

Dr. Barnes and Demonstrators.

Text:—Laboratory Exercises in General Chemistry, Evans, Hatcher and Steacie (Renouf Pub. Co., Montreal).

Note.—1 and 1C must be taken concurrently.

2. Organic Chemistry (No. 56 Fac. Eng.).

Professor Hatcher and Demonstrators.

Text-books:—Lowry and Harrow—Introduction to Organic Chemistry, 3rd edition (John Wiley & Sons).

Norris, Experimental Organic Chemistry. 3rd edition. (McGraw-Hill).

Note:—Physics 1 or equivalent is prerequisite to this course. Students who have not taken Chemistry 4 or its equivalent are recommended to take it concurrently.

3. Analytical Chemistry.

(a) QUALITATIVE ANALYSIS.

First term; Tu., Th., at 10; laboratory six hours, Mon., Wed., 2 to 5.

Professor Evans and Demonstrators.

Students who can do so are recommended to take this course with the students in Engineering in September (Eng. 54 and 55). This is particularly recommended to students who intend to take 3b1.

Text-books:—W. A. Noyes, Qualitative Analysis (Henry Holt & Co.); N. N. Evans, Notes on the Theory of Qualitative Analysis.

- (b) QUANTITATIVE ANALYSIS.
- (1) First term: one lecture, Fri. at 9, nine hours laboratory; second term, twelve hours laboratory.

This course must be taken by all B.Sc. honour students and all others who intend to take Chem. 8 (1).

(2) Second term only: one lecture, Tu. at 10; twelve hours laboratory.

Professor Mennie and Demonstrators.

Text-book:—Engelder, Elementary Quantitative Analysis (Wiley).

Physical Chemistry (Wiley).

*5. Organic Chemistry (Advanced) (No. 65 Fac. Eng.).

Mon., Wed., Fri., at 10. Twelve hours laboratory.

Professor Allen and Demonstrators.

Text-book:—Gilman, Organic Chemistry (John Wiley & Sons).

5A. Organic Qualitative Analysis (No. 65A Fac. Eng.).

One laboratory period a week throughout the session.

Professor Allen and Demonstrators.

Text-book:—Kamm, Qualitative Organic Analysis (Wiley).

- *7A. Physical and Colloid Chemistry Laboratory (No. 66A Fac. Eng.).

 Nine hours......Professors Maass, Steacie and Demonstrators.

 Text-book:—Experimental Physical Chemistry, Daniels, Matthews & Williams (McGraw-Hill).
 - 8. Quantitative Analysis (Advanced).
 - *(1) One lecture, Mon. at 9, twelve hours laboratory throughout the year.

 Prerequisite Chem. 3b1. This course must be taken by all B.Sc. honour students and is optional for others who have taken 3b1.

 Text-book:—Fales, Inorganic Quantitative Analysis (Century).
 - (2) First term: one lecture, Mon. at 9, twelve hours laboratory. Second term: twelve hours laboratory. Pre-requisite Chem. 3b2.

Professor Mennie and Demonstrators.

^{*}Courses for Graduates and Honour Students.

*9.	History of Chemistry (No. 74 Fac. Eng.).	
	Wed. at 9	Dr. Barnes.

- Carbohydrates, Fats, Amino-acids, etc. (No. 58, Fac. Eng.).
 Second term; Tu., Th., at 12. Prerequisite Chem. 2 and 4.
 Professor Hatcher.
- Inorganic Chemical Technology (68A. Fac. Eng.).
 First term; Wed., Fri., at 11. Prerequisite Chem. 1 and 2.
 Dr. Phillips.
- Organic Chemical Technology (69A. Fac. Eng.).
 Second term; Wed., Fri., at 11. Prerequisite Chem. 1 and 2.
 Dr. Phillips.

B.Sc. HONOUR COURSES IN CHEMISTRY

Each student must have his courses approved by the Department of Chemistry and the Dean of Science at the beginning of each session. These courses begin with the Second Year.

Prerequisites: At least second class standing in Chemistry 1 and 1C; Mathematics 1 and Physics 1 or 2.

Second year: Chemistry 3a, 3b1, 4; German 4 and French 16, Mathematics 3; Physics 3a.

Third Year: Chemistry 2, 6, 7, 7a, 8(1).

Fourth Year: Chemistry 5, 9, 11, 13, 14, 15, and research.

The above courses may be altered with the consent of the Department of Chemistry and the approval of the Dean of Science.

GRADUATE COURSES

See page 397.

^{*}Courses for Graduates and Honour Students.

DEPARTMENT OF CLASSICS

PROFESSOR: -W. D. WOODHEAD.

PROFESSOR OF CLASSICAL PHILOLOGY:—CLIVE H. CARRUTHERS.

ASSOCIATE PROFESSOR: - ALEXANDER M. THOMPSON.

Assistant Professor:—Paul F. McCullagh

LECTURER: -E. M. COUNSELL

SESSIONAL LECTURER:—W. LINDSAY

Greek

All students taking Honours in Greek are expected to provide themselves with a grammar, a Greek-English dictionary, a classical dictionary, and an atlas of ancient geography. The following are recommended: Goodwin's Greek Grammar (Ginn & Co.); Liddell and Scott's Greek Lexicon (abridged or intermediate); Kiepert's Atlas Antiquus (Williams and Norgate); Smith's Smaller Classical Dictionary (Everyman Series, Dent).

1A. Beginners' Greek. First Year.

1B. Greek. First and Second Years.

Third and Fourth Year students in the General Course will take Greek 11 in 1935-36.

HONOUR COURSES IN GREEK

11. Greek. Second Year.

12. Greek. Second Year.

13. Greek. Third Year.

14. Greek. Third Year.

Herodotus viii (Shuckburgh, Cambridge University Press); Aristophanes, Clouds (Merry, Clarendon Press); Thucydides vii (Marchant, Macmillan); Sight Translation.

15. Greek. Fourth Year.

Prose Composition.

16. Greek. Fourth Year.

Aristotle, Ethics (Selections) and Poetics (Oxford Classical Texts); Plato, Republic i-iv; Sight Translation.

Latin

All students taking Honours in Latin are expected to provide themselves with a grammar, a Latin-English dictionary, a classical dictionary, and an atlas of ancient geography. The following are recommended:—New Latin Grammar (Allen and Greenough, Ginn & Co.); Lewis, School Dictionary, or White, Junior Students' Latin-English Dictionary; Smith, Smaller Classical Dictionary (Everyman's Series, Dent), Kiepert, Atlas Antiquus (Williams and Norgate).

1. Latin. First Year.

Mon., Wed., Fri., at 10.

Petrie, Latin Reader, with Introduction to Roman History (Oxford, Clarendon Press); Latin Prose Composition (Marchant and Watson, Bell & Sons Ltd.); Translation at sight.

1A. Latin. First Year (for more advanced students).

2. Latin. Second Year.

Third Year Students in the General Course will take Latin 13; Fourth Year Students will take Latin 14.

HONOUR COURSES IN LATIN

11. Latin. Second Year.

Mon., Wed., Fri., at 11....Professor Carruthers and Mr. Counsell. Sallust, Catiline; Plautus, Rudens (Sonnenschein, Clarendon Press); Latin Prose Composition.

12. Latin. Second Year.

13. Latin. Third Year.

Mon., Wed., Fri., at 9...... Mr. Lindsay.

Cicero, Letters (Abbott, Ginn & Co.); Roman Elegiac Poets (Harrington, American Book Co.); Sight Translation.

14. Latin. Third Year.

Juvenal, Selections (Duff, Cambridge University Press); Virgil, Bucolics (Page, Macmillan & Co., Elementary Classics), Georgics I and II (Jerram, Clarendon Press); Prose Composition.

15. Latin. Fourth Year.

16. Latin. Fourth Year.

Ancient History

Greek and Roman History and Institutions: Open to students of all years. May be taken as a half-course in the first or second term except by First Year students or students in Honour Classics. Full-course students failing in one-half of this course must pass the supplemental in the full course.

Tu., Th., Sat., at 11....Professor Carruthers and Mr. Counsell. The full course is described as History 1B. See also under Department of History.

COMPARATIVE GRAMMAR

GRADUATE COURSES IN CLASSICS

See page 403.

DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE

Professors:—{Stephen Leacock. J. C. Hemmeon. J. P. Day.

Assistant Professor:—John Culliton.

Sessional Lecturer:—Eugene Forsey.

Graduate Fellows:—{E. H. Clark A. D. Styles

 Elements of Political Economy. Second Year. Mon., Wed., Fri., at 11.

2.	Elements of Political Science. Second Year.
	Mon., Wed., Fri., at 12. Honour Section
	General Section Mr. Forsey.
	General Section
3.	History of Economic and Political Theory. Third Year. First term; Mon., Wed., Fri., at 2
	Transfer, a bear empressional and a seed in man to enter the market had
4.	Economic History. The Economic Development of the Machine Age, 1815-1935. Third Year.
	Second term; Mon., Wed., Fri., at 2Professor Leacock.
5.	Labour Problems. Third Year. First term; Tu., Th., Sat., at 12Professor Hemmeon.
6.	Money and Banking. Third Year,
0.	Second term; Mon., Wed., Fri., at 10
	Day:
7.	Canada: Industrial and Economic Problems. Third Year. First term; Tu., Th., Sat., at 11
	The state of the s
8.	The Government of Canada. Third Year. Second term; Mon., Wed., Fri., at 3
9.	Contemporary Economic Theory. Fourth Year.
	First term; Tu., Th., Sat., at 11
10.	Contemporary Political Theory. Fourth Year.
	Second term; Mon., Wed., Fri., at 3Professor Leacock.
11.	International Trade and Trade Policy. Fourth Year.
	First term; Mon., Wed., Fri., at 10Professor Day.
12.	Public Finance. Fourth Year.
	Second term; Tu., Th., Sat., at 12Professor Hemmeon.
13.	Social and Industrial Legislation. Fourth Year. First term; Mon., Wed., Fri., at 2
	AND THE RESERVE OF THE PROPERTY OF THE PROPERT
14.	Transportation. Fourth Year. Second term; Tu., Th., Sat., at 11
F	or the courses in Economics and Political Science given in the

School of Commerce, see page 195.

HONOUR COURSES

Students taking the full Honours in Economics and Political Science take, in their Second Year, courses 1 and 2 together with three other courses approved by the Department; in their Third Year the courses indicated above, together with one approved course from another department, and in their Fourth Year the courses indicated above, together with a course approved by the department.

Students taking half their Honours in another department (see page 105) may be granted honours in Economics (without Political Science) by taking courses 1, 2, 5, 6, 7 or 8, 9, 11, 12 or 14, or they may be granted honours in Political Science (without Economics) by taking courses

1, 2, 3, 4, 5 or 8, 10, 12, 13.

Students in the Department of Economics and Political Science are expected to spend a considerable proportion of their time in the preparation of class reports, essays, etc., in addition to the lectures and ordinary reading.

GRADUATE COURSES

See page 404.

DEPARTMENT OF EDUCATION

Professors:—{John Hughes Sinclair Laird.

Assistant Professor:—H. D. Southam

- General Principles of Education. Third Year.
 Tu., Th., Fri., at 4.
- 2. Method and School Organization. Fourth Year. Mon., Wed., 4-5.30.

Seminars for Graduate Students.

Weekly seminars are held (hours to be arranged) for graduate students.

THE TRAINING OF TEACHERS

THE HIGH SCHOOL DIPLOMA

This diploma is valid only in the Protestant Schools of the Province of Quebec. Only those students who may legally teach in Protestant schools should attempt to qualify for this diploma.

Each candidate must (a) make application upon the authorized forms, (b) be a British subject or satisfy the Central Board that he has begun the necessary proceedings to become such, (c) submit a physician's certificate to show that he is in good health and free from physical and mental defects that would seriously interfere with his usefulness as a teacher, (d) be a graduate of some Canadian or other British University, with degree courses as follows:—

 (a) Academic. Courses for two years in the following subjects:— English, French and three of the following: Latin, History, Mathematics, a science subject.

It is provided, however, (i) that a candidate may omit in the Second Year any three of these subjects, except English, in which he has taken at least 60% in the First Year, (ii) that a candidate taking an Honour course is exempt from these requirements after the First Year.

The Regulations governing the award of the High School Diploma require that candidates shall secure the approval of the Department of Protestant Education for the first two years of the B.A. Course before entering upon Course 1 in Education in the Third Year. Applications for recognition as candidates for the High School Diploma must be made to the Department not later than the July 20th preceding entrance upon Course I.

Application forms may be obtained from the Registrar's Office.

Failure to secure such approval may involve refusal by the Department to recognize for the purposes of the Diploma the work done in both Courses 1 and 2.

N.B.—Candidates may be permitted to qualify for the High School Diploma under the Regulations that were in force when they entered, with the benefit of any amendments made subsequently.

(b) Professional.

Full Year of Graduate Training. The University has now instituted a course providing a full year of graduate training for High School Teachers. This course covers all the present requirements for the High School Diploma together with further work of a professional kind. This new and improved arrangement is being introduced to enhance the standing of High School teachers trained at McGill, and to bring the scheme of training into accord with those that generally prevail elsewhere. Candidates for this course are advised to consult the Professor of Education for further particulars.

For details of the M.A. in Education, see page 405.

For candidates who desire to qualify under the old arrangement and so long as the old arrangement is recognized by the Department of Education and the University, the following will be accepted as meeting the professional requirements:—

- (1) The successful completion of courses 1 and 2 in the Department of Education.
- (2) Successful completion of special courses in methods of teaching French, Music and Drawing. These courses are held in the Montreal High School on Tuesday afternoons throughout the session. Fee, \$20.00, payable to the Bursar, McGill University.

(3) Successful completion of at least fifty half-days of practice teaching and criticism lessons under expert supervision (unless the candidate holds an intermediate diploma or shows an equivalent in successful teaching experience which would be accepted by the Central Board of Examiners).

The course in Practice Teaching is at present divided into two parts. The first part is taken in September preceding the Fourth Year. Education Course 1 is a prerequisite. The second part of the course in Practice Teaching is taken in May and June after the Fourth Year examinations.

ELEMENTARY, INTERMEDIATE AND KINDERGARTEN DIPLOMAS

The training for these diplomas is given at Macdonald College. (See Macdonald College Announcement.)

COURSES FOR TEACHERS OF SPECIAL SUBJECTS

French. A summer school for teachers of French leading to a Specialist Diploma recognized by the Provincial Department of Education.

Kindergarten Assistants. A two-session course held in Montreal and leading to a Kindergarten Assistant's Diploma, according to the regulations of the Protestant Committee of the Department of Education. This diploma is accepted for entrance to the Kindergarten class at Macdonald College.

Physical Education. (This course is given under the Department of Physical Education. See page 443.)

DEPARTMENT OF ENGLISH

Professor:—Cyru	JS MACMILLAN
Associate Professors:	GEORGE W. LATHAM
ASSOCIATE I ROFESSORS;—	HAROLD G. FILES

Assistant Professor:—A. S. Noad Lecturer:—Mary Mackenzie

Lecturer and Director in Play Production:—Norah Sullivan Assistants:—Freda MacGachen, Ruth Dingle Sessional Lecturer in Oral English—Robert George

	(A. R. McBain		
	ESTHER ENGLAND		
	BARBARA ULRICHSEN		
ASSISTANTS:	}		
	Carambia A olicity To		

1. English Composition.

Sat., at 12. Professor Noad, Miss Mackenzie, Mr. George and Assistants. Section and weekly conference hours to be arranged.

2. English Literature.

General Course from Anglo-Saxon times to the present day.
Tu., Th., and, at the pleasure of the instructor, Sat. at 12.

Professor Macmillan and Assistants.
Weekly conference hours to be arranged.

Advanced Courses.

In English 1 and English 2, advanced students will be assigned to special sections in which advanced work will be prescribed.

1A. English Composition.

One hour a week in the first term of the Second Year.

All students who fail in English 1 are required to take this course.

Professor Noad and Assistants.

3. English Composition.

Half course. An advanced course open to a limited number of undergraduate students who have completed English 1. Application for permission to take this course should be made at the beginning of the session.

4. English Literature in the Nineteenth Century.

5. Spenser and Milton.

6. Shakspere (Six Plays).

7. English Literature in the Eighteenth Century.

8. The Forms of Public Address.-Oral English, etc.

Half course.

Tu., 3 to 5; conference hours to be arranged Mr. George.



9.	English Poetry from 1798 to the present time. Mon., Wed., Fri., at 11Professors Macmillan and Noad		
	(Not given in 1935-36. Given in 1936-37.)		

- English Literature, from 1450 to the Restoration. Mon., Wed., Fri., at 12.. Professors Noad, Macmillan and Latham. (Given in 1935-36. Not given in 1936-37.)
- 13. Technique of the Drama.
 Tu., Th., at 10 a.m.; laboratory periods Mon., Tues., Wed., Thurs.,
 Fri., 3.30 to 5.30 p.m... Miss Sullivan, Professors Macmillan and
 Files, Miss MacGachen, Miss Dingle and Assistants.
 Courses 3, 6, 7, 11 and 19 are recommended to students taking this course.
- 15. American and Canadian Literature. Second term; Mon., Wed., Fri., at 11 Professors Macmillan and Latham. (Given in 1935-36. Not given in 1936-37.)

- 18. The English Bible.

 First term; Tu., Th., Sat., at 9.

 Professor and Assistants.

 (Not given in 1935-36).

- 22. An Advanced Course in the Technique of the Drama. Prerequisite: English 13 or its equivalent.

The attendance in this course is limited to twenty. Application for admission must be made at the beginning of the session. Mon., Wed., Fri., 12. Laboratory periods, Mon., Tues., Wed., Th., Fri., 3.30 to 5.30 p.m. Miss Sullivan and other members of the Department.

NOTE

Courses 4, 7, 11, 15, 19, and in special cases with the consent of the Department, Course 6, are open to students in the Second Year.

Courses 3, 5, 8 to 14 inclusive, and 16 to 23 inclusive are open to students in the Third and Fourth Years.

HONOUR COURSES

Second Year:—Two courses selected from 4, 6, 7, 8, 15, 18, 19. Third Year:—Four courses.

Fourth Year:—Four courses not taken in the Third Year; Course 11 in the Graduate School may be taken, with the permission of the Department.

Three full courses from 5, 6, 12, 14 and 20 are compulsory for Honours.

English Requirements for the Honour Courses in English and Latin, English and French, and English and German.

Second Year:-Consult the Chairman of the Department.

Third Year:—Two courses, chosen with the approval of the Department.

Fourth Year: Two courses, chosen with the approval of the Department.

Course 12 and one course selected from 5, 14 and 20 are compulsory.

English Requirements for Honours in English and Other Subjects

Second Year: - Consult the Head of the Department.

Third Year:—Two courses chosen with the approval of the Department.

Fourth Year: Two courses chosen with the approval of the Department.

One full course selected from 5, 6, 12, and 14 is compulsory in either the Third or the Fourth Year.

FINAL GENERAL EXAMINATION:—Every candidate for Honours in English or English and another subject, must pass, near the close of his last year, a special general examination, either oral or written, conducted by a committee of the Department.

GRADUATE COURSES

See page 407.

DEPARTMENT OF GENETICS

PROFESSOR:—C. LEONARD HUSKINS.

LABORATORY AND RESEARCH ASSISTANTS:— STANLEY G. SMITH H. GERHARD SANDER

Natural Science 1

(Five lectures in the conjoint Botany, Zoology, and Geology Course.)

Professor Huskins.

1. Genetics and Evolution.

1st Term, Genetics; 2nd Term, Evolution. (May be taken as half-courses).

Mon., Wed., Fri., at 9; 1 laboratory hour to be arranged. (Prerequisite:—Natural Science 1 or Elementary Botany or Zoology.)

Professor Huskins.

2. Cytology.

2nd Term, Mon., at 12; laboratory Th., Fri., 3-5.
(Prerequisites:—Genetics 1, General Botany and for Zoology).

Professor Huskins and Miss Spier (Dep't of Botany).

3. Advanced Cytogenetics.

Wed. 2-5.

(Prerequisites:—Genetics 1, General Botany and Zoology.)
Professor Huskins and members of Macdonald College Staff.
(Given at Macdonald College in 1935-36.)

GRADUATE COURSES

See page 412.

TEXT BOOKS

Sinnott & Dunn—Principles of Genetics (McGraw Hill); Wilson—The Cell (Macmillan); Gray—Experimental Cytology (C.U.P.); Sharp—Introduction to Cytology (McGraw Hill); Baur, Fischer & Lenz—Human Heredity (Allen & Unwin); Darlington—Recent Advances in Cytology (Blakiston, Churchill); Sansome & Philp—Recent Advances in Plant Genetics (Blakiston, Churchill); Hogben—Genetic Principles in Medicine and Social Science (Williams & Norgate); Morgan—Evolution (Norton).

DEPARTMENT OF GEOLOGICAL SCIENCES

Professor:—John J. O'Neill.

Professor of Mineralogy:—R. P. D. Graham.

PROFESSOR OF PALÆONTOLOGY:-T. H. CLARK.

Assistant Professors:— $\begin{cases} J. E. Gill. \\ F. F. Osborne. \end{cases}$

LEROY FELLOW IN GEOLOGY:-J. E. RIDDELL

Natural Science 1 (Botany, Geology, Zoology). A conjoint course outlining briefly the nature and evolution of the earth and its inhabitants.

- 1. General Geology (Eng. 141).
 - (a) Mineralogy and Petrology.
 - (b) Dynamical and Structural Geology.
 - (c) Historical Geology.

In addition to the lectures there are excursions on Saturday mornings for five or six weeks after the term opens; students attending these are excused from any classes which conflict with the excursions. Two hours laboratory; sections arranged to suit students.

Text-books:—Schuchert, "Outline of Historical Geology" (Wiley); Longwell, Knopf and Flint, "Physical Geology" (Wiley).

2. Physiography and Natural Resources of Canada.

3.	Str	atigr	aph	v.

4. Geology of Canada (Eng. 149).

5. Mineralogy (Eng. 142).

6. Determinative Mineralogy (Eng. 143).

Two laboratory periods during the first term; Th., Fri., 2 to 5.

Professor Graham.

7. Practical and Field Geology (Eng. 147).

Lectures, laboratory, and field mapping.
First term; Th., at 11, and Sat. mornings, 9-12. Professor Gill.

8. Ore Deposits (Eng. 148).

9. Optical Mineralogy and Crystallography (Eng. 151).

One lecture Mon. at 10, and three hours laboratory period; first term.

Professor Graham.

10. Petrography (Eng. 146).

12. Palæontology.

13. Geological Colloquium.

This course must be taken by all 4th year students in Geology.

Note.—Subjects normally grouped to make full courses; 2 and 4; 3 and 12; 5 and 6; 7 and 8; 9 and 10.

HONOUR COURSES

Second Year:—Geology 1, 5, 6; Botany 1 or Zoology 1; Chemistry 3a; German 4 (if French has already been taken).

Third Year:—Geology 3, 4, 9, 12; Chemistry 3b2; Botany 2; and one or more selected courses as advised by the Department.

Fourth Year:—Geology 2, 7, 8, 10, 13; Chemistry 4; and one or more selected courses as advised by the Department.

NOTE.—The selected courses in the Third and Fourth Years permit the student to concentrate on some branch of Geology in which his particular interest lies.

GRADUATE COURSES

See page 413.

DEPARTMENT OF GERMANIC LANGUAGES

Professor:—H. Walter.
Associate Professor:—W. L. Graff.
Lecturer:—Miss B. Meyer.

1. German Language. (Beginners' B.A. Course.)

Tu., Th., Sat., at 9.. Professors Walter and Graff, and Miss Meyer. Texts:—Van der Smissen and Fraser, High School German Grammar (Copp, Clark Co.); Guerber, Märchen und Erzählungen, Vol. I (Heath); Nichols, Easy German Reader (Holt).

Students intending to proceed to Course 5 from the above must have obtained a First Class.

Those intending to proceed to Course 7 are required to study during the summer the following texts:—Hauff, Der Zwerg Nase (Heath); Moser, Der Bibliothekar (Heath); Schrakamp, Ernstes und Heiteres (A.B. Co.).

2. German Language.

3. German Language. (Beginners' B.Sc. Course.)

GERMAN 137

4. German Science Reading Course. Second Year.

For students who have matriculated in this language or have taken it in the First Year.

One weekly lecture until Christmas. After that date the students report every week on reading assignments....................Professor Graff.

Texts:—H. G. Fiedler and F. E. Sandbach: A Second German Course for Science Students (Oxford University Press); "Verstandliche Wissenschaft" (Springer, Berlin).

5. German Language. Second Year.

Private Readings:-

Riehl, Der Fluch der Schönheit (Heath); Wildenbruch, Der Letzte. (Am. B. Co.).

Section B; Mon., Wed., Fri., at 10................Professor Walter.

Texts:—Van der Smissen, German Grammar; Massard, A German Composition Book (Rivington); Baker, German Stories (Holt); Freytag, Die Journalisten (Ginn); Schiller, Maria Stuart.

Private Readings:—Ebner-Eschenbach: Lotti, die Uhrmacherin (Holt).

Students of the Second Year intending to continue German in the Third Year must attend a class in Oral German (one hour a week) until in the Professor's opinion, they have reached a satisfactory standard.

7. German Language. Second Year. Honour Course.

Texts:—Harris Selection for German Composition (Heath); Goethe, Egmont (Holt); Schiller, Piccolomini; Meyer, Jürg Jenatsch (Heath); Nichols, Modern German Prose (Holt).

Private Readings:-

Heine, Harzreise (Ginn); Goethe, Sesenheim (Holt).

No student who in his First Year took German 1 can take course 7 unless he has completed the summer work as given under course 1.

Students may begin Honours in German in their Third Year, provided they have obtained a First Class in either 5A or 5B.

Honour students in German are strongly recommended to take, in their Second or Third Year, as one of their general courses, course 1 of the Department of Philosophy (Logic and Introduction to Philosophy). N.B.—In order to be admitted to the following courses of the Third and Fourth Years a student must know German well enough to understand lectures delivered in German and express himself in German with some degree of fluency and correctness.

8. German Literature (Nineteenth Century).

Mon., Wed., Fri., at 9 (given in 1936-37)..... Professor Walter.

Texts:—Kleist, Prinz Friedrich von Homburg (Ginn); Grillparzer, Sappho (Ginn); Hebbel, Agnes Bernauer; Hauptman, Die versunkene Glocke; Keller, Sieben Legenden (Oxford University Press); Vogelpohl: Von deutscher Dichtung (Teubner, Berlin); Ehrke: Advanced German Prose Composition (Clarendon Press).

9. German Literature (Eighteenth Century).

Mon., Wed., Fri., at 9 (given in 1935-36)......Professor Walter.

Texts:—Lessing, Emilia Galotti (Ginn); Goethe, Iphigenia; Schiller, Wallenstein; Vogelpohl: Von deutscher Dichtung (Teubner, Berlin); Ehrke: Advanced German Prose Composition: (Clarendon Press).

HONOUR COURSES

10. Mediæval German Literature and Philology.

- 12. Geschichte des deutschen Trauerspiels.....Professor Walter.
 Two hours. (Given in 1935-36.)

13. Composition.

GRADUATE COURSES

See page 415.

DEPARTMENT OF HISTOLOGY AND EMBRYOLOGY

PROFESSOR:-J. C. SIMPSON

Assistant Professor of Histology and Embryology:— H. E. Rawlinson

LECTURERS IN HISTOLOGY:—{ D. J. BOWIE. W. M. FISK. DEMONSTRATOR IN HISTOLOGY:—J. R. DEAN

Before registering for the following course, students must consult the head of the department to ensure that they are qualified to undertake the work.

1. Histology and Embryology.

Two lectures and six hours of laboratory work per week throughout the session.

Lectures-Mon. and Fri., at 2.

Laboratory—Div. A—Tues. 2-5, Thurs. 9-12.

Div. B-Tues. 9-12, Thurs. 2-5.

Professor Simpson, Dr. Rawlinson and staff.

DEPARTMENT OF HISTORY

PROFESSOR AND CHAIRMAN OF THE DEPARTMENT:—C. E. FRYER.

Associate Professor:—E. R. Adair.

LECTURER:—C. C. BAYLEY

SESSIONAL LECTURER:—J. I. COOPER

Assistants:—{Isabel F. Craig K. Relief Williams

COURSES FOR GENERAL STUDENTS

1A General History of Europe, from the Break-up of the Roman Empire to 1914. First Year.

or

1B. Ancient History. First Year.

Tu., Th., Sat., at 11*.... Professor Carruthers and Mr. Counsell. Students in History desiring to take course 1B should read the notes below on Continuation and Honour Courses in History.

^{*}See also under Department of Classics.

2.	General History of North and South America. Second Year. Mon., Wed., Fri., at 9
	History of the British Empire. Second Year. Tu., Th., Sat., at 10
	History of Canada. Third Year. Tu., Th., Sat., at 9
5.	British Industrial Democracy, 1784-1914. Fourth Year. Mon., Wed., Fri., at 11
Thi	rd Year students.
6.	History of Europe, 1789-1914. Fourth Year. Mon., Wed., Fri., at 12
	Courses Specially for Honour Students
7.	Prerequisite:—History 1. Mediæval Life and Institutions. Second Year. Tu., Th., Sat., at 10
8.	History of Modern Europe to 1789. Third Year. Mon., Wed., Fri., at 12
9.	English Constitutional History. Fourth Year. Tu., Th., Sat., at 9
10.	History of Economic and Social Conditions, with special reference to England. Fourth Year. Mon., Wed., Fri., at 10 or 11, as arranged
	attanged Tolessor Adam.
Spe	cial Subjects:—
	The Reign of Charles I.
	William Pitt and the Conquest of Canada.
	England, 1832-1846: a study in political reconstruction.
	The Genesis of the British Parliamentary Labour Party. A Selected Topic in Canadian History 1867-1896.

^{*}For courses in Ancient History, see under the Department of Classics.

A Period or Aspect of Ancient History.*

HISTORY 141

Note.—A choice of one of these special subjects for continuous study by Honour students during their Third and Fourth Years is made in consultation with the Department. Students will be expected to acquire a general knowledge of the subject selected and to make a more intensive study of one of its aspects.

General students taking History as a continuation subject may, if they so desire, take course 1B (Ancient History) in their first year. If they do so, they must take History 1A in their second year, and either History 2 or History 3 in their Third Year.

Without the special consent of the department, History 1A is a prerequisite to History 2 or History 3 for all students taking History as a continuation or Honour subject.

Students taking Honours in History will take the following courses in 1935-36:—

First Year: History 1A., and four courses in other subjects.

Second Year: History 2 and 7.

Three approved courses in other subjects, at least one of which must be a foreign language.

Third Year: History 4 and 8.

An approved course in Philosophy, Economics, Latin, French or German. One of the special subjects in History.

Fourth Year: History 6, 9 and 10.

Continuation of special subject begun in 1934-35.

Students taking Honours in History and another subject will take the following courses in History in 1935-36:—

Second Year: History 2 and 7.

Third Year: History 4 and 8.

Fourth Year: History 9, and either 6 or 10.

Note.—In addition to the examination on the subjects taken up in the last year, Fourth Year Honour students have a general examination paper on the history studied by them in their four years.

GRADUATE COURSES

See page 415.

DEPARTMENT OF MATHEMATICS

Professors and Joint Chairmen:

A. H. S. Gillson W. L. G. Williams

Associate Professor:—H. Tate

Assistant Professor:—G. Pall Sessional Lecturer:—W. B. Ross

1. Mathematics. (For First Year students.)

Geometry and Trigonometry. Mon., Wed., Fri., at 9 or 11, first term. Algebra. Mon., Wed., Fri., at 9 or 11, second term.

Five ordinary sections: Professors MacLean, Gillson, Tate, Pall, Dr. Ross. One advanced section, Mon., Wed., Fri., at 9. Professor Gillson. Text-books:—Hall and Knight, Elementary Trigonometry; revised Canadian edition; Carslaw, Plane Trigonometry; Hall and Stevens, School Geometry. Parts I-VI; W. G. Borchardt, A Second Course in Algebra (Rivingtons).

First or Second class standing in course 1 is necessary for course 3 or 4.

1B. Practical Mathematics.

A knowledge of courses 3 and 4 is a prerequisite for courses 6, 7, 8. Ordinary students taking Mathematics as a continuation subject are advised to take the following courses: Mathematics 2 in the second year, Mathematics 43 of the School of Commerce (Elements of Analytic Geometry and Calculus) in the third year, and Mathematics 3 or 4 or 8 in the fourth year.

Spherical Trigonometry and Astronomy. (For Second Year and other qualified students.)

Spherical Trigonometry: One hour, first term....Professor Sullivan.
Astronomy: Two hours, second term......Professor Gillson.

Text-books:—Murray, Spherical Trigonometry; Barlow and Bryan,
Astronomy (London University Tutorial Press); Moulton's Astronomy.

This course can be combined with Physics 4 to form a three-hour course for the year.

Analytical Geometry of Three Dimensions; Curve Tracing. (For Third Year and other qualified students.)

 Infinitesimal Calculus and Differential Equations. (For Third Year and other qualified students.)

8. Finite Differences and Theory of Equations.

(For Third Year and other qualified students.)

Text-books:—Burnside and Panton, Theory of Equations; Fine, College Algebra; Freeman, Actuarial Mathematics.

Modern Higher Algebra. (For Fourth Year and other qualified students.)

10. Introduction to the Theory of Functions of a Real Variable.
(For Fourth Year and other qualified students.)

Introduction to the Theory of Functions of a Complex Variable. (For Fourth Year and other qualified students.)

For Courses in Commerce open to students in Arts and Science, see page 199.

HONOUR COURSES IN MATHEMATICS

Prerequisites:—High standing in Mathematics 1; Physics 1 or 2.

Second Year:—Mathematics 3, 4, and either Mathematics 5 and Physics 4, or Mathematics 42 of Commerce.

Third Year:—Courses 6, 7, 8, and a fourth course (in any subject) approved by the Department.

Fourth Year:—Courses 9, 10, 11, and a fourth course (in any subject) approved by the Department.

HONOUR COURSES IN MATHEMATICS AND PHYSICS

Prerequisites:—High standing in Mathematics 1; Physics 1 or 2. Second Year:—Mathematics 3, 4, 5; Physics 3, 4. (Chemistry and English recommended as other subjects to be chosen.)

Third Year:—Mathematics 6, 7; Physics 5, 6. Fourth Year:—Mathematics 10, 11; Physics 7, 8, 9, 10.

GRADUATE COURSES IN MATHEMATICS

See page 418.

DEPARTMENT OF PHILOSOPHY

Professor:—C. W. Hendel (Chairman)
Associate Professor.—R. D. Maclennan
Lecturer:—J. S. Fulton

GENERAL COURSES.

1. Introduction to Philosophy. Second Year.

Reading: The Trial and Death of Socrates, (Plato), Macmillan Co.; Selections from Descartes, Berkeley and Hume (Scribner's Modern Students' Library); A. N. Whitehead, Science and the Modern World. Macmillan Co. Tu. (Conference), Th., Sat., at 10.

Professors Hendel and Maclennan, Dr. Fulton.

1A. Logic and Scientific Method. Second Year.

Reading: M. R. Cohen, An Introduction to Logic and Scientific Method (Harcourt, Brace and Co. N.Y.); or H. W. B. Joseph, An Introduction to Logic (Oxford Press); M. Planck, Where is Science Going? (Allen and Unwin, London); Whetham, Cambridge Readings in the Literature of Science (Cambridge University Press).

Mon., Wed., Fri., at 12......Professor Maclennan.

2. Moral Philosophy. Third and Fourth Years.

Reading: Plato, Republic (Davies and Vaughan, Macmillan); Hobbes, Leviathan (Everyman, Dent); J. Butler, Fifteen Sermons Preached in the Rolls Chapel (Mathews, Bohn Library, Bell); Hume, Selections; Kant, Fundamental Principles of the Metaphysics of Morals (T. H. Abbott, Longmans); J. S. Mill, Utilitarianism (Everyman, Dent).

3. Greek Philosophy. Third and Fourth Years.

4. History of Modern Philosophy. Third and Fourth Years.

Reading: Descartes, Selections; Hume, Selections, Leibniz, Writings in Everyman edition, Dent; Kant's Critique of Pure Reason (Abridged edition), N. K. Smith, Macmillan; Bergson, Creative Evolution (Holt and Co.).

Tu., Th., Sat., at 12......Professor Hendel.

ADVANCED COURSES.

5. Social and Political Ethics.

Plato, Republic (Davies and Vaughan, Macmillan); Aristotle, Politics (Everyman, Dent); Locke, Civil Government (Everyman, Dent); Rousseau, The Social Contract (Everyman, Dent); Hobbes, Leviathan (Everyman) or Selections (Scribners).

The students will make some special investigations of their own in this course.

Prerequisite: Philosophy 2 or 3 or 4.

Students of advanced standing in economics and political science, or any other cognate subject, are permitted to take this course without fulfilling the above prerequisite, but only with the express consent of the lecturer.

6. The Philosophy of Kant and Fundamental Problems.

N. K. Smith, Immanuel Kant's Critique of Pure Reason, Abridged edition (Macmillan & Co.); W. James, Pragmatism (Longmans); S. Alexander, Space Time & Deity (Macmillan & Co.)

9. Seminar on Contemporary Philosophy.

Subject for 1935-36. Contemporary Logic. One meeting a week, two hours, to be arranged.

Professors Hendel and Maclennan and Dr. Fulton.

10. Ethics.

Aristotle, Ethics (Everyman, Dent); Spinoza, Ethics (Oxford Press); Kant, Ethics (tr. Abbott, Longman's); W. E. Hocking, Human Nature and its Remaking (Yale Univ. Press); W. Fite, An Adventure in Moral Philosophy (Lincoln MacVeagh); and other contemporary discussions.

Prerequisite Philosophy 2. Students of the Graduate Faculty are permitted to take this course without fulfilling the above prerequisite, but only with the express consent of the Chairman.

This course will be given in 1936-37 and alternate years (Cf. Philosophy 5).

Honour Courses

Second Year:—Philosophy 1 and Philosophy 1A. (One of these courses may be deferred to Third Year.)

Third Year:—Three General Courses, 2, 3, and 4. A student may enter the Honour Course in the Third Year with but one of the prerequisite courses of Second Year. In this case the student must take the deferred course as a fourth course. Otherwise students are expected to elect a course in another subject, with the advice and consent of the Chairman.

Fourth Year:—Three Advanced Courses and one full course in another subject approved by the Chairman.

For any combined Honour Course the requirements of Philosophy are five full courses, including Philosophy 1 or 1A.

GRADUATE COURSES IN PHILOSOPHY

See page 426.



PHYSICS

147

DEPARTMENT OF PHYSICS

HEAD OF THE DEPARTMENT:-A. NORMAN SHAW

Professors:—{L. V. King D. A. Keys J. S. Foster

Associate Professor:-H. E. Reilley

ASSISTANT PROFESSOR:—W. H. WATSON

LECTURER IN ASTRO-PHYSICS:-A. V. DOUGLAS

Sessional Lecturers:— H. G. I. Watson F. R. Terroux

DEMONSTRATORS:— C. A. HORTON
E. R. POUNDER
F. W. SIMONS
D. SMITH

INSTRUCTOR IN LABORATORY TECHNIQUE:-H. T. PYE

1. General Course.

1C. Commerce First Year.

Mon., and Tu., at 4; Laboratory as in 1...... Professor Reilley. *Text-books:*—Millikan and Edwards, College Physics (Ginn).

2P. General Course (Advanced). Open to Second Year pre-medical and pre-dental students; also available for other Arts and Science students. (Physics 1 or equivalent, prerequisite.)

Tu., Th. at 3, Wed. at 11, laboratory with Physics 1. Professor Reilley. Text-books:—Duff's Text-book on Physics (Blakiston); Laboratory Manuscripts (Renouf Publishing Co.). Reference books:—Daniel's Text-book on Medical Physics (Macmillan); Jones, Electricity and Magnetism (Lewis).

2. Heat, Sound and Light. (Engineering 311, Lab. 312.)

Tu., Th., Sat. at 11; laboratory, Wed. 11-1, or Wed. 2-4.

Professor Shaw.

Text-books:—Duncan and Starling's Heat, Light and Sound (Macmillan); Laboratory Manuscripts (Renouf Publishing Co.).

3A. Electricity and Magnetism. (Engineering 315, Lab. 316.)

Mon., Fri., at 11; laboratory, Mon. or Fri. 2-5..... Professor Reilley.

Text-books:—Hadley's Magnetism and Electricity for Students
(1926 ed. Macmillan).

3B. Statics and Hydrostatics.

4. Dynamics.

6A. Electrical Measurements. (Graduate A.)

Tu., at 2, Wed., at 9; laboratory, Tu., 3-5, Wed., 2-5.

Professor W. H. Watson.

Reference books:—Laws' Electrical measurements (McGraw-Hill); Starling's Electricity and Magnetism (Longmans); Pidduck's Treatise on Electricity (C.U.P.); Hague's Alternating Current Bridge Methods (Pitman, London).

6B. Light. (Graduate B.) (Replaced by 8B in alternate sessions.*) Mon., at 9, laboratory Th., 2-5...Professor Keys and Dr. Douglas. Text-books:—Edser's Light (Macmillan). References:—Robertson's Physical Optics (Van Nostrand); Wood's

Physical Optics (Macmillan); Drude's Optics (Longmans).

6C. Electricity. (Engineering 318.)

^{*}Courses 6B and 8B will be given in alternate sessions as follows:—6B in '36-'37, '38-'39, etc., and 8B in '35-36, '37-'38, etc.

[†]Course 10 in '35-'36, '37-'38, etc., and Course 5A in '36-'37, '38-'39, etc.

7A. Electromagnetic Theory. (Graduate C.)

7B. Mathematical Physics. (Graduate D.)

8A. Molecular Physics. (Graduate E.)

8B. Theory of Heat. (Graduate F.) (Replaced by 6B in alternate sessions.*)

Mon., at 9 (laboratory, †Th. 2-5).

Professor Shaw and Dr. Douglas. Text-book:—Roberts' Heat and Thermodynamics (Blackie).

9. Radioactivity. (Graduate G.)

Vector Analysis. (Graduate H.) (Replaced by 5A in alternate sessions.‡)

11. Astrophysics.

^{*}Courses 6B and 8B will be given in alternate sessions as follows:—6B in '36-'37, '38-'39, etc., and 8B in '35-'36, '37-'38, etc.

[†]The Department of Metallurgy kindly permits students to do additional practical tests in the Metallurgical Laboratory.

[‡]Course 10 in '35-'36, '37-'38, etc., and Course 5A in '36-'37, '38-'39, etc.

HONOUR COURSES IN MATHEMATICS AND PHYSICS

Prerequisites:—High standing in Mathematics 1; Physics 1 or 2. First Year students intending to take these Honour courses are advised to take Physics 2 and the advanced section of Mathematics 1; in this case they should also attend that part of Course 1 which deals with electricity and magnetism.

Second Year:—Mathematics 3, 4, 5; Physics, 3, 4; (Chemistry and English recommended as other subjects to be chosen).

Third Year: - Mathematics 6, 7; Physics 5, 6.

Fourth Year: - Mathematics 10, 11; Physics 7, 8, 9, 10.

Third and Fourth Year Honour students are invited to attend the Journal Club, Colloquium and Physical Society.

A reading knowledge of scientific French and German should, if possible, be obtained before the end of the fourth year.

See page 112 for course in Engineering Physics.

GRADUATE COURSES IN PHYSICS

See page 426.

DEPARTMENT OF PHYSIOLOGY

Professor of Physiology:—John Tait.

Research Professor:—Boris P. Babkin.

Assistant Professor:—N. Giblin.

Lecturer:—S. Dworkin.

1. Introductory Course.

First Term:—Three lectures a week. Second Term: Two lectures a week.

For students who are not simultaneously taking or have not already taken a course in Anatomy or Zoology, a course of lecture demonstrations will in the second term be substituted for the omitted lecture.

Mon., Wed., Fri., at 9.

Text-books:—Bainbridge & Menzies: "Essentials of Physiology" (Longmans, Green & Co., London & New York); Best & Taylor: "The Human Body" (Gage & Co., Toronto); Halliburton: "Handbook of Physiology" (London, J. Murray); Howell: "Text-book of Physiology" (W. B. Saunders Co., Phila. & Lond.); Macleod: "Physiology in Modern Medicine" (St. Louis, C. V. Mosby C.); Wiggers: "Physiology in Health and Disease" (Lea and Febiger, Philad.); Samson Wright: "Applied Physiology" (Oxford Univ. Press).

2. Intermediate Course.

Three lectures, one demonstration and six hours laboratory work a week. October to December.

3. Senior Course.

Two lectures, one demonstration and six hours laboratory work a week. December to February.

REQUIREMENTS FOR HONOURS (B.Sc.) IN PHYSIOLOGY

First Year: As for 1st year B.Sc.

Second Year: Introductory Course in Physiology.

Third Year: Intermediate Course and Senior Course.

Fourth Year: Advanced Lectures.

Students intending to read for honours in Physiology should consult the Professor of Physiology.

In addition to the above courses the student must have completed an adequate course of study in other departments before being admitted to the degree.

If a student has taken the Introductory Course in Physiology in his first year, he must take at a later stage either Natural Science I or General Zoology (see page 159).

In addition to the ordinary course examinations of each successive year, the student may be required to pass a general examination in Physiology at the end of his 4th year.

GRADUATE COURSES IN PHYSIOLOGY

See page 430.

DEPARTMENT OF PSYCHOLOGY

Professor and Director of the Psychological Laboratory:— William D. Tait

Associate Professor:—Chester E. Kellogg.

LECTURER:—N. W. MORTON.

DEMONSTRATOR:—E. C. WEBSTER.

1. Introduction to Psychology. Second Year.

Mon., Wed., at 10, and two laboratory periods per month to be arranged. This course is a prerequisite for all other courses.

Professor Tait and Mr. Webster.

2. Advanced Psychology. Third and Fourth Years.

Lectures, experiments, and readings following syllabus issued by the instructor.

3.	Experimental Psychology.			Third and Fourth Years.					
	Laboratory	periods	Mon.,	Wed.,	at 2	2; c	onferences	or	lectures
	Fri., at 2							Dr.	Morton.

4. Physiological Psychology. Third and Fourth Years.

Lectures, readings and reports. Open only to students who have passed or take concurrently Course 2 or Course 3. Second Term: Three hours per week, to be arranged. Professor Kellogg. (Given in 1935-36).

5. Comparative Psychology. Third and Fourth Years.

6. Child Psychology. Third and Fourth Years.

7. Human Motivation. Third and Fourth Years.

8. General Introduction to Aesthetics. Third and Fourth Years.

Lectures, readings, and a thesis.

9. Educational Psychology. Third and Fourth Years.

- 14. Abnormal Psychology. Fourth Year and Graduate. Lectures, readings and reports. Prerequisites:—Course 2 or course 3 taken previously or concurrently. Second term. Three hours to be arranged................Professor Kellogg.
- 16. Contemporary Psychological Theory. Third and Fourth Years. Conferences, readings and reports. Second term. Three hours to be arranged.......Professor Kellogg. (Given in 1936-37).

HONOUR COURSES

Students contemplating Honours must take Psychology I and Philosophy I or IA in Second Year and are advised to include Biology and Elementary German in either First or Second Year. Admission to Honours will depend upon the student's standing in Psychology and related subjects.

Third Year:—At least two courses in Psychology, including either 2 or 3. The remaining courses should be selected in consultation with the Chairman of the Department.

Fourth Year:—Four full courses, as in third year, except that course 2 may not be counted as an Honour Course in 4th year. At the end of the Fourth Year Honour students are required to take a comprehensive examination covering the whole field. This examination may be either oral or written.

The requirements for Honours in Psychology and other subjects are two courses in Psychology and two in the other subject selected, each year.

GRADUATE COURSES

See page 432.

DEPARTMENT OF ROMANCE LANGUAGES

PROFESSOR:-R. DU ROURE.

Associate Professors:—{P. Villard. George E. Lemaitre.

Assistant Professors:—{Mme. Touren Furness. L. d'Hauteserve. Mlle. C. Henry.

FRENCH

Every lecture, even in the First Year, is given in French.

Both oral and written examinations are held on each year's work. The oral examination (in both General and Honour courses) counts for 50 per cent.

A special section in the First Year is provided if necessary for the students who undertake the courses in French with very little knowledge of the spoken language, but it is not possible to acquire fluency without extra work. Students who are deficient in this respect, and especially those taking French as a continuation subject, are therefore strongly advised to follow the French Summer School course either before or after their First Year.

1. French Language and Literature. First Year.

Section A, Mon., Wed., Fri., at 9; Section B, Mon., Wed., Fri., at 11....Professors Villard, Lemaître, Furness, d'Hauteserve and Mlle. Henry.

Texts:—(a) General Course.—Green and Fort, French Composition (Oxford); or Coindreau and Lowe, French Composition Book (Holt); Lavisse, Histoire de France, Cours moyen; Maupassant, Contes Choisis;

A. Dumas, Les Trois Mousquetaires (Heath); Hugo, Gavroche (Oxford). (b) Advanced Course.—Louis Hémon, Maria Chapdelaine; Racine, Andromaque (Ginn); Jules Romain, Knock ou le Triomphe de la médecine (The Century Co.); Molière, Les Précieuses Ridicules (Heath); Moraud, French Composition (Oxford); Lavisse, Histoire de France, Cours moyen.

2. French Language and Literature. Second Year. Section A, Tu., Th., Sat., at 9; Section B, Tu., Th., Sat., at 11. Professors Furness, Lemaître, d'Hauteserve and Mlle. Henry.

Texts:—Des Granges, Les grands écrivains français (Hatier); Molière, Le Bourgeois Gentilhomme (Holt); Augier, Le Gendre de M. Poirier (Dent); Mérimée, Colomba (Heath); Moraud, French Composition (Oxford).

3. The Short Story in French Literature. Second Year. (Honour Course.) Tu., Th., Sat., at 10..... Professors du Roure and Furness.

Texts:—Tarsot, Fableaux et Contes du Moyen Age (Heath); Perrault, Contes de ma Mère l'Oie (Hilsum, Paris); Voltaire, Zadig and Other Stories (Heath); Buffum, French Short Stories (Holt).

Beside the texts given above, a certain number of home readings will be assigned for this Course.

4. French Literature of the XVIIth and XVIIIth Centuries. Third Year.

Mon., Wed., Fri., at 10...... Professor Lemaître and Mlle. Henry.

Texts:—Des Granges, Morceaux choisis, Classes de Lettres (Hatier); Corneille, Le Cid; Racine, Phèdre; La Fontaine, Fables (Hatier); Des Granges, Précis de Littérature Française (Heath); Marivaux, Le Jeu de l'Amour et du Hasard (Macmillan); Beaumarchais, Le Barbier de Séville (Ginn).

Home Readings: Molière, Les Femmes Savantes (Macmillan); Lesage, Gil Blas (Heath); Voltaire, Lettres sur les Anglais (Cambridge). La Princesse de Clèves (Ginn).

Prose Composition:—Nicholson and Brennan, Passages for Translation into French (Oxford).

Modern France—Political and Social Institutions.
 Development of Political, Social, Religious and Philosophical Thought. Third and Fourth Years.

French Literature of the XIXth and XXth Centuries. Fourth Year.

Mon., Wed., Fri., at 10...........Professors du Roure and Furness.

Texts:—Hugo, Hernani; Balzac, Le Père Goriot; G. N. Henning, Representative French Lyrics of the Nineteenth Century (Ginn), Des Granges, Précis de Littérature Française (Hatier); Des Granges, Morceaux choisis, Classe de Lettres (Hatier); Paul Bourget, Un disciple; E. Rostand, Cyrano de Bergerac.

Readings: Chateaubriand, René: Flaubert, Trois Contes; Guy de Maupassant, Contes choisis; A. Daudet, Le Petit Chose; Anatole France, Le Livre de mon ami.

Prose Composition:—Ritchie and Moore; Supplement to a Manual of French Composition (Cambridge).

7. History of the French Language. Third and Fourth Years. (Honour Course.)

Texts:-Darmstetter, Cours de Grammaire Historique, Parts I and II.

8. History of the French Novel.

Third and Fourth Years (Honour Course).

9. History of the French Theatre of the XIXth Century.

10. History of the French Lyrics.

Third and Fourth Years (Honour Course).

Text:—G. N. Henning, Representative French Lyrics of the Nineteenth Century (Ginn).

11. Survey of Contemporary French Literature. Third and Fourth Years (Honour Course).

12. French Commercial Course. Second Year.

Readings:—Augier, Le Gendre de M. Poirier; Mérimée, Contes et nouvelles (Oxford); La Fontaine, Fables choisies.

13. French Commercial Course. Third Year.

Readings:-Jago, La France qui travaille (Heath); Mérimée,

Colomba.

14. French Commercial Course. Fourth Year.

Readings:-Roe, La France laborieuse (Nelson); Calvert, The French

Newspaper (Oxford).

15. French Science Reading Course. First Year, B.Sc. Course.

16. French Science Reading Course. For Second Year B.Sc. Students. One weekly lecture, Friday at 5 Professor d'Hauteserve. Texts: Fabre, La vie des insects; (Nelson); Maeterlinck, La vie des Termites (Fasquelle); Home reading. Tableau du XXème Siècle (1900-33) Les Sciences (Denoël et Steele).

HONOUR COURSES IN FRENCH

Prerequisite:-1.

Second Year: -2 and 3.

Third Year:—4 or 5, and either 7, 9 and 10 or 8 and 11, and a full course in another subject approved by the Chairman of the Department.

Fourth Year:—5 or 6, and either 8 and 11 or 7, 9 and 10, and a full course in another subject approved by the Chairman of the Department.

158

FACULTY OF ARTS AND SCIENCE

FRENCH REQUIREMENTS FOR THE HONOUR COURSE IN FRENCH AND OTHER SUBJECTS:

Second Year: -2 and 3. Third Year:—4 or 5; and one of 8, 11, 7 and 9, 10. Fourth Year:—5 or 6, and one of 7 and 9, 10, 8, 11.

M.A. Courses in French
See page 433.
DEPARTMENT OF SOCIOLOGY
PROFESSOR:—CARL ADDINGTON DAWSON.
Assistant Professor:—Everett Cherrington Hughes.
Assistants:- HELEN MACGILL HUGHES. PLD Concepts M. A. Chicago
/MA chicago
(a) Tu., Th., Sat., at 12
. The Community. Third and Fourth Years. Tu., Th., Sat., at 9
Immigration. Third and Fourth Years. (Given in 1936-37).
. Social Disorganization. Third and Fourth Years. Second Term, Mon., Wed., Fri., at 9
. Social Origins. Third and Fourth Years. (Given in 1936-37).
. Social Movements. Third and Fourth Years. (Given in 1936-37).
. The Family. Third and Fourth Years. (Given in 1936-37).
The Sociology of the Child. Third and Fourth Years. First Term, Mon., Wed., Fri., at 9

ZOOLOGY 159

11. Social Institutions.

......Professor Hughes.

HONOUR COURSES

Second Year:—Course 1 and two courses selected from any two of the allied Departments of Economics, Psychology, Philosophy and History.

Third Year:- Three full courses.

Fourth Year:- Three full courses.

At the discretion of the Department certain courses in other Departments may be substituted for certain courses in Sociology. A liberal use is made of the courses of allied Departments.

Students taking honours in Sociology and one other subject are required to take two courses in each Department.

GRADUATE COURSES IN SOCIOLOGY

See page 434.

DEPARTMENT OF ZOOLOGY

PROFESSOR:—H. B. FANTHAM.

ASSOCIATE PROFESSOR:—N. J. BERRILL.

ASSISTANT PROFESSOR:—V. C. WYNNE-EDWARDS

LECTURERS:—

W. TEMPLEMAN.

B. W. TAYLOR.

Assistant:—Kathleen G. Terroux.

$$\label{eq:demonstrators:-} \begin{split} \text{Demonstrators:--} & \begin{cases} \text{M. Notkin} \\ \text{L. R. Richardson} \end{cases} \end{split}$$

General Zoology.
 Mon., Fri., at 11; laboratory Wed., 2-5........... Professor Fantham.

2. Vertebrate Zoology.

Tu., Th., at 10; laboratory Fri., 2-5..... Professor Wynne-Edwards.

4A. Social Biology.

First term: Tu., Th., at 12; laboratory Th., 2-5 Professor Fantham.

4B. Animal Parasites and their Life-Histories.

Second term: Tu., Th., at 12; laboratory Th., 2-5. . Professor Fantham.

Note:—Advanced Zoology (Animal Behaviour and Animal Distribution) will be studied under Zoology 4 in 1936-37.

5A. Comparative Embryology.

First Term: Mon., Fri., at 12; laboratory Mon., 2-5. . Professor Berrill.

5B. Experimental Zoology.

Second Term: Mon., Fri., at 12; laboratory Mon., 2-5. . Dr. Terroux

6A. Animal Ecology.

First Term: Mon., Fri., at 11; laboratory Wed., 2-5.
Professors Berrill and Wynne-Edwards and Mr. Taylor.

6B. Ornithology.

Second Term: Mon., Fri., at 11; laboratory Wed., 2-5.

Professor Wynne-Edwards.

Biological Colloquium......The Staff and Graduate Students.

The conjoint course in Natural Science is not necessarily a prerequisite for Zoology 1, but Zoology 1 should be taken before Zoology 2-6.

HONOUR COURSE IN ZOOLOGY

First Year: As for general B.Sc., preferably including Botany 1 instead of Natural Science.

A total of five courses must be taken in each of the 2nd, 3rd, and 4th years, and must be approved by the Professor before the student registers.

The following courses are recommended:-

Second Year: Zoology 1, Physiology 1, Chemistry 2, Chemistry 4 Physics 2P, Mathematics 1B.

Third Year: Zoology 2, Zoology 3, Zoology 4A and 4B, Botany 4A or Genetics 1, Geology 12.

Fourth Year: Zoology 4A and 4B (topics not already taken), Zoology 5, Zoology 6, Physiology 2 and 3.

Other courses to be selected on the advice of the Professor.

In special cases, modifications may be made in the preceding list after consultation with the Professor and the Dean of Science, but, in his four years' study, an Honour student must take all the courses given in the Department during that period.

Honour students may be required to take a general examination in Zoology at the end of the Fourth year in addition to the ordinary course

examinations.

Text-Books:-Borradaile, "Manual of Elementary Zoology," Oxford Univ. Press; Hegner, "College Zoology," Macmillan, New York; Guyer, "Animal Biology," Harper Bros., New York; Curtis and Guthrie, "Text Book of General Zoology," second edition, J. Wiley & Sons, New York; De Beer, "Vertebrate Zoology," Macmillan, New York; Goodrich, "Structure and Development of Vertebrates," Macmillan, London; Borradaile, Eastham, Potts & Saunders, "The Invertebrata," Cambridge Univ. Press; Hegner, "Invertebrates," Macmillan, New York; Brumpt, "Précis de Parasitologie," Masson, Paris; Hegner, Root & Augustine, "Animal Parasitology," Century Co., New York; Russell and Yonge, "The Seas," Warne Bros., London; Chapman, "Handbook of the Birds of Eastern North America," Putnams, New York; De Beer, "Introduction to Experimental Embryology," Oxford Univ. Press; McEwen, "Text-Book of Embryology," Hy. Holt & Co.; Durken, "Experimental Analysis of Development," W. W. Norton & Co., New York; Bayliss, "Principles of General Physiology," Longmans Green & Co.; J. Gray, "A Text-Book of Experimental Cytology," Cambridge Univ. Press; Parker & Haswell, "Text-Book of Zoology, 2 vols." Macmillan, London; E. S. Russell, "Behaviour of Animals," Edw. Arnold, London.

GRADUATE COURSES IN ZOOLOGY

See page 436.

DEPARTMENT OF PHYSICAL EDUCATION

Director, Department of Physical Education:—Arthur S. Lamb University Medical Officer:—F. W. Harvey. Athletics Manager:—D. S. Forbes.

TRACK COACH AND ASSISTANT PHYSICAL DIRECTOR:—
F. M. VAN WAGNER.

ASSISTANT PHYSICAL DIRECTOR:—HAY FINLAY.

At the time of his medical examination (see page 95), each student is asked to fill in a card indicating his choice of physical activity, which he will be allowed to follow unless debarred for medical reasons, in which case he is given a further choice among other recognized but less strenuous forms of exercise or does gymnasium work as the case may require.

Physical education is compulsory for all students of the first two years. Two hours per week are devoted to it.*

Any student participating in competitive athletics may be excused from other forms of exercise during the season of training at the option of the Director.

Not less than one month before the conferring of degrees, the Director furnishes to the Registrar of the University, for transmission to the Senate and the Faculty, a list of all students, being candidates for degrees at the forthcoming Convocation, who have failed to satisfy the requirements of the Committee on Physical Education, and no Diploma for a degree is issued to any such candidate except by express direction of the Senate.

No student in default is allowed to proceed to the next year of his course unless exemption is granted for special reasons on the recommendation of the Faculty and approved by the Committee on Physical Education.

All students in good standing, who are taking a course of study held to be sufficient by a special committee of the Faculty in which they are enrolled, are allowed to take part in athletics, subject, however, to the general regulation regarding medical examination.

Suspension from lectures for any cause, or absence from more than oneeighth of the total number of lectures given in any course, is considered sufficient grounds to disqualify a student from engaging in athletic contests.

During the session and including the Christmas holidays, all teams and individual students desiring to participate in "outside athletics"† must first apply to the Captain or Manager of the club concerned, who must secure the permission of the Athletics Manager, by whom all such sanctions are granted.

Should any student take part in athletic contests, not having been sanctioned as above, or who is not personally qualified under the regulations regarding eligibility, medical examination, etc., such student shall be immediately debarred from participation in all University athletics. He shall be reported to the Athletic Board, which body shall, if it sees fit, request the offender to withdraw from the University, if the consent of the Principal has been given, until the Senate shall meet to deal with the matter.

(For further regulations see handbook published by the Athletic Board.)

^{*}Note:—Owing to lack of accommodation this requirement is suspended for the session 1935-36.

^{†&}quot;Outside Athletics" are athletics not under the control of the Athletic Board of the University or of the Intercollegiate Athletic Union.

FOR WOMEN (Royal Victoria College)

PHYSICAL DIRECTOR FOR WOMEN:—JESSE S. HERRIOTT
UNIVERSITY MEDICAL OFFICER FOR WOMEN:—MARY CHILDS

Assistant Physical Directors for Women:—

Ruth Harvey
Zerada Slack
Ethel L. Wain

Undergraduate students in the Faculty of Arts and Science are required to take at least two hours work per week in this Department for the first three years of their course. To meet this requirement two classes per week should be enrolled in. Students in Music must take two hours per week for two years.

Partial students may register for work in this Department on payment of \$5.00 for a class of two periods per week.

All classes start the week of October 7th, 1935. Course numbers 2, 4, 5, and advanced sections of 8 will not begin until the week of October 28th. Students enrolling in these courses will engage in two a week of the following classes during the month of October: Field Hockey, Tuesday and Friday at 3 (Upper Stadium); Track and Field, Tuesday and Thursday at 12 (Lower Stadium); Tennis (to be played on University Courts at student's convenience; time of play to be signed for in office of R.V.C.)

Activity Courses for 1935-36: (All classes will be taken out of doors whenever weather permits.

- 1. Gymnastics (Behind R.V.C.). Tuesday at 12. Wednesday at 12.
- 2. Apparatus (R.V.C. Gym.). Tuesday at 3 (advanced). Friday at 11 (beginners).
- 3. English Country Dancing (Behind R.V.C.). Monday at 3.
- 4. Elementary Interpretative Dancing (R.V.C. Hall). Friday at 12.
- 5. Advanced Interpretative Dancing (R.V.C. Hall). Wednesday at 11. Tuesday at 3.
- 6. Elementary Folk Dancing (Behind R.V.C.) Wednesday at 2.
- Advanced National and Character Dancing, 1 term only, (R.V.C. Gym.).
 Monday at 10.

8. Badminton:

Elementary Sections (Behind R.V.C.).

Thursday at 2. Monday at 12.

Advanced Sections (R.V.C. Hall).

Tuesday at 11. Wednesday at 9. Thursday at 10. Friday at 11.

No student may enrol for an advanced section for more than one year or for more than one class a week.

Racquets must be furnished by the students.

9. Swimming: (Montreal High School Pool).

Elementary Sections:

Wednesday at 11. Thursday at 12.

Advanced Sections:

Tuesday at 10 and 12. Wednesday at 12. Friday at 12.

A fee of \$1.50 to cover suit and towel service must be paid by the student before the first of November.

10. Volleyball, Basketball, Baseball, (Behind R.V.C.). Seasonal arrangements.

Elementary Sections:

Tuesday at 2.

Advanced Sections:

Wednesday at 4. Thursday at 3.

- 11. Elementary Tennis (Tennis Courts behind R.V.C.).

 Monday at 12. Tuesday at 9.

 Racquets must be furnished by the students.
- 12. Archery (Upper Stadium).

 Monday at 11. Tuesday at 11. Thursday at 11. Friday at 10.
- 13. Elementary Golf (Upper Stadium). Friday at 9. Friday at 12.
- 14. Fencing. (Behind R.V.C.). Elementary: Monday at 9. Advanced: Monday at 10.

15. Postural Exercises.

Students who are assigned to this work as a result of the Health examination, will be divided into small groups, and suitable hours arranged.

16. Hygiene Lectures and Examinations:

Hygiene Lectures will be given every Monday at 5 p.m. in Room 105, R.V.C. An examination will be given in March, the passing of which is a requirement in the Department of Physical Education. Attendance at lectures is voluntary.

In January and February skiing, skating and ice hockey may be substituted for an indoor class. Arrangements for this will be made by the Department and due notice given.

SCHOLARSHIPS, MEDALS, AND PRIZES IN ARTS AND SCIENCE

For details of Entrance Scholarships see page 89.

For Scholarships open to women only see page 178.

GENERAL REGULATIONS IN ARTS AND SCIENCE

- 1. No student can be awarded more than one scholarship in Group B or C; in Group A, however, a student may hold more than one.
- 2. Scholarships will be awarded only if an adequate standard is attained.
- 3. If in any College Year there is not a sufficient number of candidates showing adequate merit, any one or more of the scholarships offered for competition may be given to more deserving candidates in another Year.
- In order to retain his scholarship a successful candidate must proceed regularly with his college course to the satisfaction of the Faculty.
- 5. The annual income of the scholarships will be paid in two instalments, viz.:—In October and February, about the 20th of each month.

GROUP A.—SCHOLARSHIPS IN ARTS AND SCIENCE AWARDED ON THE RESULT OF THE SESSIONAL EXAMINATIONS

THE JANE REDPATH SCHOLARSHIP.—Founded by the late Mrs. Redpath, for the maintenance of a scholarship in Arts and Science. It is awarded on the result of the sessional examinations of the First Year to the student who makes the highest average on the year's work. Value of scholarship, \$90.

THE BARBARA SCOTT SCHOLARSHIP.—Founded by the will of the late Barbara Scott to form an annual scholarship for the student "excelling in Classics in the First Year." Value \$125.

THE JAMES DARLING McCall Scholarship.—This scholarship was founded by J. T. McCall, Esq., in memory of his son, James D. McCall, B.Sc., who was drowned shortly after the war, in which he served with distinction. This scholarship is awarded each year to a male student of the Third Year of Arts and Science who has "given proof of scholarship and ability as an honour student in the subject of English and Philosophy." It is of the value of \$250.

THE CHARLES WILLIAM SNYDER MEMORIAL SCHOLARSHIP.—This scholarship, founded by L. P. Snyder, Esq., in memory of his son, Charles William Snyder, a student of First Year Arts, who was killed in the Battle of Sanctuary Wood on June 2nd, 1916, is of the value of \$250. It is awarded annually on the result of the examination in English and Economics of the Second Year, and is subject to the condition that the holder take an Honour Course in English, with Economics as a minor subject in his Third Year, or the Honour Course in English and Economics. It is open to male students in the Faculty of Arts and Science professing the Christian religion.

Mackenzie Scholarships.—Four Mackenzie Scholarships are awarded annually in the Department of Economics and Political Science. Two, of \$100 and \$50 respectively tenable for one year, are awarded, on the results of the Second Year examination in Economics 1 and 2, to students whose courses have been approved by the Department, but no student is eligible who has not completed the work of this Year. The tenure is conditional upon the holders taking the honour work in Economics and Political Science of the Third Year. The other two scholarships, of \$100 and \$50, are awarded on the result of the honour examination of the Third Year in Economics and Political Science. The scholarships will not be awarded except on satisfactory evidence of merit; their tenure is conditional upon the holders taking the honour work in Economics and Political Science of the Fourth Year.

A Fourth Year Mackenzie scholarship may be held by a student who holds another; a Third Year scholarship cannot.

THE SIR WILLIAM DAWSON SCHOLARSHIP.—Given by the New York Graduates' Society; value, \$60.

THE DR. BARCLAY SCHOLARSHIP.—Awarded in the Classical Department; value, \$50.

ROBERT BRUCE SCHOLARSHIP.—From a fund, created by the will of the late Robert Bruce, of Quebec City, one scholarship of annual value \$100, tenable for three years, will be awarded for high standing in the examinations at the end of the First Year.

THE REFORD SCHOLARSHIP.—The interest on this fund, amounting to about \$200 per annum, will be equally divided each year and placed at the disposal of the Departments of English and Philosophy.

THE HOUSTON SCHOLARSHIP.—Founded by the will of Thomas Houston, to establish a scholarship for French students studying for the Presbyterian Ministry. It is open only to undergraduates in the Faculty of Arts and Science under the above restriction and is awarded on the result of the sessional examinations without regard to Year. The value is about \$70.00.

THE NATHAN FISH MEMORIAL SCHOLARSHIP.—This scholarship, of the value of \$50.00, has been founded by the Chi Chapter of the Sigma Alpha Mu Fraternity in memory of Nathan Fish, a student in Pharmacy who died in 1925. It is awarded annually to the student obtaining the highest distinction in the Second Year honour subjects of the Department of English, or in any other courses which the authorities may select.

THE MARGARET JANE ALLAN SCHOLARSHIP.—This scholarship, of \$200, was established in 1929 by a bequest to the Royal Victoria College from Mrs. Agnes W. Allan. It is awarded each year to the woman student in either the B.A. or the B.Sc. course in Arts and Science who obtains the highest standing in the sessional examinations of the First Year.

PETERSON MEMORIAL SCHOLARSHIP IN CLASSICS.—Founded in memory of Sir William Peterson, Principal of McGill University from 1899 to 1918, by his son, W. G. Peterson, M.A., who left a legacy of \$10,000, to provide an annual scholarship to be known as the "Peterson Memorial Scholarship in Classics" and awarded to the most promising student in Classics in McGill University whom the Faculty of Arts and Science may select. Annual value, \$400.00.

GROUP B.—SECOND YEAR SCHOLARSHIPS IN ARTS AND SCIENCE AWARDED ON THE RESULT OF A SPECIAL EXAMINATION IN SEPTEMBER

Six scholarships, ranging in value from \$100 to \$150 each, will be offered for competition to students entering the Second Year in September, 1935.

The subjects of examination are divided into two groups, as follows:—

Group I.—Greek, Latin, French, German, English, History.

Group II.—Mathematics, Physics.

Candidates are required to offer two subjects, which must be selected from the same group.

Two scholarships of \$150 each and two of \$100 each are offered to candidates taking their subjects from Group I, and one of \$150 and one of \$100 to candidates taking their subjects from Group II.

One of these scholarships is "The Charles Alexander Scholarship," for men only, and is awarded for "classics and other subjects."

The above scholarships are open to all undergraduates in Arts and Science whether they are taking the B.A. or the B.Sc. course.

Notice of intention to take the examination for these scholarships must be sent to the Registrar before July 1st.

REQUIREMENTS IN EACH SUBJECT

Greek.

- I. (a) Homer, Iliad iii.
 - (b) Plato, Ion.
- II. Translation at sight.

Latin.

- I. (a) Cicero, De Senectute.
 - (b) Cicero, Pro Archia.
 - (c) Horace, Odes Book ii.
 - II. Translation at sight.

French.

(a) Grammar; (b) translation at sight of an English passage into French; (c) French essay on a prescribed subject; (d) a critical study of the following texts, tested by questions in the French language to be answered in French:—

Corneille, Cinna (Holt); Molière, La Malade Imaginaire (Macmillan); Rudmose-Brown, French Short Stories (Oxford); Loti, Pêcheurs d'Islande (Rivington).

German.

(a) Grammar; (b) translation at sight from German into English and from English into German; (c) critical study and translation of the following texts:—

Goethe, Hermann und Dorothea (Holt); Fulda, Talisman (Heath), Hauff, Lichtenstein (Heath).

English.

Shakspere, Twelfth Night; Macaulay, History of England, Vol. I, Chap. 3 (England in 1685); Scott, Marmion; Thackeray, Pendennis; Charles Reade, The Cloister and the Hearth; Tennyson, The Coming of Arthur, The Last Tournament.

REQUIREMENTS IN ENGLISH FOR 1936 AND 1937

Students writing examinations for Second and Third Year Scholarships are required to give evidence of a thorough knowledge of one of the periods listed below.

In 1936, candidates for Second Year Scholarships will select Period V; candidates for Third Year Scholarships will select Period II.

In 1937, candidates for Second Year Scholarships will select Period I; candidates for Third Year Scholarships will select period III.

Periods:—(1) Tudor and Elizabethan; (2) Elizabethan Drama; (3) 17th Century; (4) 18th Century; (5) 19th Century.

READINGS

Period I. More, Utopia; Manning, Household of Sir Thomas More; Neale, Queen Elizabeth; Sidney, Defence of Poetry, Astrophel and Stella; Spenser, Fairie Queen—Book II.

Period II. Marlowe, Edward II; Shakspere, Richard III, Much Ado About Nothing, Othello; Jonson, Bartholomew Fair; Raleigh, Shakspere.

Period III. Walton, Lives; Clark, Seventeenth Century; Bunyan, Grace Abounding; Milton, Tenure of Magistrates, Lycidas, Comus; Dryden, Annus Mirabilis, Alexander's Feast.

Period IV. (Any five of the following.) Defoe, Journal of the Plague Year; Ashton, Social Life of Reign of Queen Anne, (Chapters 1, 2, 5, 10, 12, 18, 19, 20, 25, 29); Swift, Gulliver's Travels—Books 1 and 2; Pope, Rape of the Lock; Lady Mary Wortley Montagu, Letters; Johnson, Rasselas; Burke, Reflections on the French Revolution; Goldsmith, She Stoops to Conquer, The Good-natured Man.

Period V. (One author from each of the following five groups.)

A. Hazlitt, Selected Essays:—On Going a Journey, Familiar Style, Conversation of Authors, The Indian Juggler, The Ignorance of the Learned; Lockhart, Life of Scott up to 1814.

B. Wordsworth and Coleridge, Lyrical Ballads; Keats, Odes, Hyperion; Shelley, Alastor, Adonais, Prometheus Unbound, Choruses from Hellas; Byron, Manfred, Don Juan, Cantos 2 and 3, The Vision of Judgment.

C. Carlyle, Heroes and Hero Worship; Kinglake, Eothen; Newman, Apologia; Ruskin, Seven Lamps of Architecture.

D. Tennyson, Palace of Art, The Holy Grail, Guinivere, Locksley Hall Sixty Years After, Becket; Browning, My Last Duchess, Rabbi Ben Ezra, The Last Ride Together, Christmas Eve and Easter Day.

E. Trollope, Barchester Towers; Kingsley, Hypatia; Borrow, Lavengro.

History.

Edward Gibbon: The Decline and Fall of the Roman Empire, Chaps. i-iii (inclusive), xv-xvii (inclusive), xx; C. and M. Beard: The Rise of American Civilization, Hakluyt's Voyages, Everyman Edition (1926), vol. VI, pp. 1-38, 42-49, 115-132, vol. VIII, pp. 48-74; More's Utopia.

Mathematics.

Plane Geometry.—Godfrey and Siddon's Modern Geometry, omitting appendices.

Algebra.—Hall and Knight's Higher Algebra.

Plane Trigonometry.—Carslaw's Plane-Trigonometry (Macmillan & Co.), except Chap. 13.

Physics.

Duncan and Starling's "Heat, Light and Sound" (Macmillan); and Bragg's "Concerning the Nature of Things."

GROUP C.—THIRD YEAR SCHOLARSHIPS IN ARTS AND SCIENCE AWARDED ON THE RESULT OF A SPECIAL EXAMINATION IN SEPTEMBER

Five scholarships, of the value of \$300 (\$150 per year for two years), are open for competition to students entering the Third Year in September, 1935.

Three scholarships will be awarded for subjects in Group I and two scholarships for subjects in Group II.

Group I.-Greek, Latin, English, French, German, History.

Group II.—Mathematics and Physics.

Candidates are required to offer two subjects which must be selected from the same group.

Of the above five scholarships two are known as "Sir William Macdonald Scholarships" and are open to men only.

The four following scholarships, of the value of \$150 each, are also offered for competition to students entering the Third Year:—

One for Philosophy.

One for Psychology.

One for Chemistry.

(Of the above three scholarships, one is called a "Sir William Macdonald Scholarship" and is open to men only.)

One for Biology.

(This scholarship is called "The Major Hiram Mills Scholarship." and is divided, \$75 being awarded for Botany and \$75 for Zoology. It is open to both men and women.)

The four last mentioned scholarships may be awarded in any manner announced by the Departments interested.

A Bursary of \$25 will be awarded to the holder of one of these four scholarships who is considered most deserving on entering the Fourth Year.

The Hannah Willard Lyman Exhibition of \$80 is also awarded annually in the Fourth Year to the best woman student who may have been the holder of a Third Year scholarship in biology or chemistry or philosophy. Should there be no sufficiently deserving candidate, this exhibition may be awarded at the beginning of the Third Year to a woman candidate who may fail to obtain one of the five regular scholarships offered to Third Year students.

In the award of Third Year scholarships, the Second Year standing of candidates, in the subject selected, is taken into account.

In the event of no candidate of sufficient merit presenting himself, the scholarship assigned to any group of students may, at the discretion of the Faculty, be awarded in another group, whether a scholarship has been already assigned to that group or not.

Notice of intention to take the examination for these scholarships must be sent to the Registrar before July 1st.

REQUIREMENTS IN EACH SUBJECT

Greek.

Translation at sight.

Study of the following texts:—Euripides, Hippolytus; Lucian, Menippus and Timon.

Latin.

Translation at sight.

Study of the following texts:—Cicero, Philippic II; Virgil; Aeneid XII; Tacitus; Dialogus.

English. (For 1935)

Shakspere:—Henry IV, Part 2, and King Lear; Milton, Paradise Lost, Books I and II; Pope, An Essay on Criticism; Carlyle, Past and Present; Arnold, Essays in Criticism, Second Series; Morris, Atalanta's Race.

The 1936 and 1937 requirements for Third Year Scholarship examinations in English are given on page 168.

History.

Pepys' Diary, 1659-1666 inclusive; Macaulay's History of England, Chaps. ii-x inclusive; Francis Parkman, The Old Régime; G. M. Wrong, A Canadian Manor and its Seigneurs.

French.

(a) Translation at sight from English into French; (b) questions on the subject matter of the following texts, and the lives of their authors:—Molière: Le médecin malgré lui (Heath); Racine: Andromaque (Heath); Rostand: Cyrano de Bergerac (Holt); Hugo; Ruy Blas (Holt); Taine: L'Ancien Régime (Heath).

The entire examination is held in the French language.

German.

(a) Translation at sight from German into English, and from English into German; (b) critical study and translation of the following texts:—Goethe, Dichtung und Wahrheit, Books I, II, III (Heath); Eichendorff, Aus dem Leben eines Taugenichts (Holt); Heine, Prose Selections, Faust's edition (Macmillan); Schiller Piccolomini; Wallenstein's Lager (Holt) and either Wilhelm Tell or Maria Stuart.

Mathematics and Physics.

CALCULUS:—Fundamental principles relating to functions, limits, and continuity; differentiation and integration of ordinary functions; geometrical applications; maxima and minima; curvature; areas; volumes; length of curves; mean values; approximate integration; Taylor's and MacLaurin's Series.

Books for reference:—Murray's Differential and Integral Calculus (or similar text books) and, most especially, Lamb's Infinitesimal Calculus, Chaps. I to VIII inclusive, and Arts. 122, 133, 138, and 183 to 187.

ANALYTICAL GEOMETRY:—The analytical treatment of the conic sections.

Books of reference:—C. Smith's Conic Sections, Chaps. I to X inclusive, and Arts. 222 to 229 inclusive.

PHYSICS:—Starling's "Electricity and Magnetism" (Longman's).

An essay, prepared during the summer, must also be submitted giving an account of an investigation performed during the summer, or written on any topic selected by the student such as radio, meteorology, calorimetry, hydroelectric development, etc.

Philosophy.

Plato, Republic (Macmillan) or Hume, Dialogues concerning Natural Religion, in Selections (Scribner's).

Psychology.

The scholarship will be awarded on the basis of work done in Psychology I during the session.

Chemistry.

H. I. Schlesinger, General Chemistry (Longmans Green & Co.). In addition to the written examination the candidate is required to write an essay of about 3,000 words on "Aqueous Solution." This essay must be handed in before, or at the time of, the examination. The prize-winning essay will be retained by the Department.

Biology

Two scholarships will be awarded:—
One in Botany, value \$75.
One in Zoology, value \$75.

Candidates may attempt either or both.

Botany

The candidate must present:

An original collection of 150 species of flowering plants and ferns properly named and mounted.

The scholarship will be awarded on the combined results of

(a) the work done in Botany 1 during the session,

- (b) an oral examination on the subject matter of Botany 1 and on field Botany, to be held at the end of September,
- (c) the scientific value of the plant collection made by the candidate.

Zoology

The candidate must present:

An original collection of 40 different Invertebrates and 10 different Vertebrates (excluding birds), properly named, mounted or preserved. The Invertebrates may all belong to any one large group.

The scholarship in Zoology will be awarded on the combined results of

(a) the work done in Zoology 1 during the session,

(b) an oral examination on the subject matter of Zoology 1, to be held at the end of September,

(c) the scientific value of the animal collection made by the candidate.

BURSARIES

Ten bursaries of \$100 each, two for each of the five sessions from 1934-35 to 1938-39 have been given to the University by the Montreal Alumni Club of the Sigma Alpha Mu Fraternity. These bursaries are open to men students in any Faculty. Need and scholarship determine the award. Applications in writing should be made to the Registrar before the end of June.

Three bursaries of \$100 each for the 1935-36 session have been given to the University by the Mount Royal Lodge of Bnai Brith. These bursaries are open to men and women students in any Faculty. Need and scholarship will determine the award. Applications in writing must reach the Registrar before the end of June 1935.

MEDALS IN ARTS AND SCIENCE

The following medals are awarded to the graduating students who stand highest in the First Class Honour List of the subjects named, provided the Faculty so recommends to the Senate.

The Henry Chapman Gold Medal, for Classical Languages and Literature. The Prince of Wales Gold Medal, for Mental and Moral Philosophy.

The Anne Molson Gold Medal, for Mathematics and Natural Philosophy. The Shakspere Gold Medal, for English Language and Literature.

The Logan Gold Medal, for Geology, Mineralogy and Palæontology.

The Major Hiram Mills Gold Medal, for Biology.

The Governor-General's Gold Medal, for Modern Languages and Literature.

The Allen Oliver Gold Medal, for Economics and Political Science (founded by Mrs. Frank Oliver, in memory of her son, the late Allen Oliver, B.A., M.C., Lieutenant 26th Battery, C.F.A., who was killed in action at the Somme, on November 18th, 1916).

The Lieutenant-Governor's Silver Medal, in History.

SECOND YEAR MEDAL

The Lieutenant-Governor's Bronze Medal is awarded to the student standing highest in the Second Year in Latin and Mathematics.

In addition to the above, certain medals are offered annually by the Alliance Française, at the discretion of the Department of Romance Languages.

If there is no candidate for any medal, or if none of the candidates fulfil the required conditions, the medal is withheld, and the proceeds of its endowment for the year may be devoted to prizes in the subject for which it was intended.

PRIZES IN ARTS AND SCIENCE

- 1. Annie Macintosh Prize.—The income of the sum of \$1,145 (\$425 of which was subscribed by the pupils and friends of the late Miss Annie Macintosh, and \$618.97 bequeathed by the late Miss I. G. Macintosh) is offered as a prize or prizes to students of the Royal Victoria College in such subject or for such work as the Faculty may determine.
- 2. Penhallow Prize.—The income of the sum of \$1,100, collected by the Arts Undergraduates' Society in 1911, is awarded annually as a prize in the Department of Botany.
- 3. Henry Chapman Prize.—This prize, of the value of \$30, is given in modern languages (excluding English).

4. The Chester Macnaghten Prize, of the value of \$35 in books, established by Russell E. Macnaghten, Esq., M.A., in memory of his uncle, is awarded annually, through the University Literary and Debating Society, for reading in English.

- 5. The Cherry Prize.—This prize, of the value of \$50.00 in books, founded by Wilbur H. Cherry, Arts 1907, and Anna Cherry, Arts 1918, in memory of their father, William Cherry, Med. 1869, and of their brother, William McFie Cherry, Arts 1911, is awarded annually by the Department of Economics and Political Science to the student who at the end of his Second Year is, in the opinion of the Department, deserving of such recognition, it being understood, however, that the prize will not be awarded to any student who already holds a scholarship in his Third Year.
- 6. Peterson Memorial Prize in Literature.—This prize, of \$50.00, founded by W. G. Peterson, M.A., in memory of his father, Sir William Peterson, Principal of McGill University from 1899-1918, is awarded to the undergraduate, or graduate, student who in addition to having achieved distinction in English Literature has given evidence of creative literary ability.
- 7. The Dora Forsyth Prize.—An annual prize amounting to the interest annually on \$1,000 bequeathed by the late Miss Jeanie Forsyth for English Literature. This prize is open to women students only and is awarded to a worthy and needy candidate recommended by the Department of English Language and Literature and approved by the Faculty of Arts and Science.

SCHOLARSHIPS FOR GRADUATES

See page 373.

UNIVERSITY LOAN FUND

A Student Loan Fund has been established by the University to assist needy students in the upper years of all Faculties. Loans are made only to students with good academic standing.

For further particulars students should consult the Dean of the Faculty.

PART-TIME EMPLOYMENT

The Students' Council runs an Employment agency which helps students to obtain summer work and, when possible, part-time work during the session. At present this part-time work is extremely difficult to find and students should not rely upon earning any money while actually at college.

WIVES OF MEMBERS OF THE TEACHING STAFF

Wives of members of the teaching staff may, with the consent of the lecturer concerned, attend any University course on payment of a fee of \$10.00. Courses taken under this regulation cannot be counted towards a degree.

THE ROYAL VICTORIA COLLEGE

Founded and Endowed by the late Rt. Hon. Baron Strathcona and Mount Royal

FOUNDATION AND HISTORY

In 1884, during the principalship of the late Sir William Dawson, the late Lord Strathcona, then Mr. Donald A. Smith, gave a sum of \$50,000, and, in 1887, a further sum of \$70,000, to found the Donalda Endowment for the higher education of women, such education to be conducted in the buildings of McGill College. Under the terms of the Donalda Endowment it was provided that degrees in the Faculty of Arts should be granted to women practically on the same conditions as to men, and that the examinations for such degrees, and the regulations for ranking, for honours, prizes and medals should be identical with those for men.

The ultimate object of Lord Strathcona was the provision of a residential college, and this was realized when the Royal Victoria College was opened in 1899, and formally inaugurated by their Majesties the King and Queen (then Duke and Duchess of York) in 1901.

A Warden and Resident Staff were appointed. With these new and great advantages the instruction provided by the original endowment has been maintained as hitherto, except that certain separate classes are held in the College Building. Women have continued to prepare for degrees in Arts and Science, and in Music.

THE COLLEGE BUILDING

The College building, surrounded by garden and tennis courts, was erected in 1899 at a cost of about \$400,000 at the head of Union Avenue, upon land adjacent to the University Campus.

The building provides an academic, administrative and recreational centre for resident and non-resident students. It is situated on Sherbrooke Street, in close proximity to the University buildings, and within easy reach of Mount Royal Park. The building is fire-proof, and much thought and artistic care have been given to furnishing and decoration.

Each student has a separate study-bedroom. The rooms are completely furnished, and no article of furniture need be brought by the students.

Lord Strathcona's intention was to provide residential accommodation for one hundred students. The original building fell far short of that conception, but for some years its resources were sufficient for the demand. Within the last ten years, however, it was found necessary to open two temporary annexes, and finally, in 1930-31, a very fine Extension was built, containing study-bedrooms for sixty-two students and an adequate number of tutors, with reception rooms, infirmary and other features

in accordance with the best modern ideas of dormitory requirements. Thus the Founder's conception has been at last fully realized.

A further programme of building, however, is indicated. The gymnasium of the College has long been outgrown and gymnastic classes and exercises have been held in the assembly hall, also the dormitory buildings, old and new, fail to meet many needs of the ever-growing body of non-resident students. The erection of a Women's Union with gymnasium and swimming pool attached is a scheme which presses for realization.

ADMISSION AND INSTRUCTION

As the College is a college of McGill University, and its students are registered in the Faculty of Arts and Science, they are required to comply with the regulations concerning admission, discipline and instruction made by the University and Faculty (see p. 102) and, in addition, with such regulations as may be made by the Royal Victoria College.

Students are required to enter on the roll book of the College their names, home addresses, and addresses in Montreal. Students not residing with their parents or guardians in Montreal are expected to apply for residence at the College. Those who do not so apply are required to submit their plans for residence to the Warden and to obtain written approval. No sanction can be given to establishments of students in apartments or elsewhere unless such households are presided over by a parent or other responsible person approved by the University. All students entering the University for the first time are required, according to municipal regulations, to present a certificate or other satisfactory evidence of successful vaccination. No student who has an infectious illness or who comes from a house in which there has been an infectious illness within a month, may enter or return to the College without giving notice and obtaining the consent of the Warden. The health of the resident students is in charge of two physicians (Dr. W. F. Hamilton and Dr. C. F. Martin), who may be consulted, free of charge, by arrangement with the Warden. Every student applying for admission to residence is required to fill in an entrance form and to forward a medical certificate on a form provided by the College.

Students of the College have the use of the University Library. There is also a College Library, in charge of a trained Librarian, comprising works of general literature and the chief stated books required for the University curricula. The College Library and Reading Room are open to resident students from 9 a.m. to 11 p.m. and to non-resident students from 9 a.m. to 6 p.m. (on Saturdays from 9 a.m. to 1 p.m.).

The Warden's business hours are 10 a.m. to 1 p.m.; at other times, by special appointment. She will be glad to meet all students before the opening of the session and to discuss their plan of work then or at any other time during the session.

Applications for admission should be addressed to the Warden, Royal Victoria College, Montreal.

BURSARIES AND LOAN FUND

For a statement of the exhibitions and scholarships open to women students of the University, see page 165.

In addition to these, four resident bursaries in all, of the value of \$200 each, are available for outstanding students of the second, third and fourth years who may be nominated by the Warden. In exceptional cases one or more of these may be awarded to first year students.

The Local Council of Jewish Women of Montreal offers an annual scholarship of \$100 to be given to a deserving student of the College in need of this financial assistance, the award to be made by the Scholarship Committee of the Alumnæ Society in consultation with the Warden of the Royal Victoria College.

There is also a loan fund available for students of the third and fourth years, who have shown by their work in the first two years that they are qualified to proceed.

A Scholarship in memory of the late Warden, to be known as the Ethel Hurlbatt Scholarship, has been founded by the Alumnæ Society, and it is hoped that an award amounting to \$75.00 may be made at the opening of the Session 1935-36 to an outstanding student of the 2nd, 3rd or 4th year.

In addition to this scholarship, a limited number of bursaries and loans are offered by the Alumnæ Society through its Scholarship Committee.

Students interested in bursaries or loans should consult the Warden before the opening of the session.

TUITION FEES

See page 99.

BOARD AND RESIDENCE

Residence in the College is open to graduate students, undergraduates, and, in exceptional circumstances, to partial students. Application for residence should be made early, as accommodation in the college is limited. No room is assigned for a shorter period than the University Session. The charge for board and residence, in addition to the sessional fee for tuition, is \$450 (\$175 for room, \$275 for board). This may be paid in two equal instalments of \$225 each, in October and February. Room rent includes all expenses of heat and light. These charges cover the University session from the first day of registration to the close of the examination (for members of the graduating class, to the day after Convocation). A deposit fee of \$10.00 is required when a room is reserved, and is deducted from the charges for the first term.

Students entering earlier or remaining later for purposes of instruction, practice teaching, or examination, and students arriving in September for practice teaching, supplemental or matriculation examinations, are charged an additional fee of \$1.50 a day. No additional fee is charged to students returning earlier than September 26th, for scholarship examinations.

Notice of withdrawal should be given at the close of the session, or not later than September 1st. Rooms are not reserved for students whose standing at the end of the Session does not entitle them to proceed to the next year. (See page 104.)

PHYSICAL EDUCATION

See page 163.

SCHOOL OF COMMERCE

FOUR-YEAR COURSE LEADING TO THE DEGREE OF BACHELOR OF COMMERCE

For information concerning the Accountancy Diploma Course for students of the Accountancy Associations of the Province of Quebec, see pages 203 to 211.

ENTRANCE REQUIREMENTS

Candidates for admission to the First Year of the School of Commerce are required to pass either the Arts or Science Junior Matriculation or an equivalent examination (see page 70). For admission to Commerce only, Spanish may be substituted for French or German in the B.Sc. examination.

The Senior Matriculation Examination (Commerce Division) which admits to the second year is described on page 82.

A limited number of partial students may be admitted. For conditions of admission see page 97.

For information concerning limited undergraduates see the Announcement of the Faculty of Arts and Science.

Women are admitted on the same terms as men.

Except under special circumstances, no student under the age of sixteen is admitted to the First Year, or under the age of seventeen to the Second Year.

Candidates desirous of entering the School of Commerce must apply for admission before September 10th. Application forms are provided by the Registrar's Office.

ADVISERS

At the time of registration each student entering the First Year is interviewed by a member of the Committee of the Board of Student Advisers. At this interview the student is given any information or advice that he may need and is assisted in the selection of his courses. At the same time he is assigned to an adviser whom he may consult at any time and should consult at least once a month.

ADMISSION TO THE SECOND AND THIRD YEARS

Applications for entrance to the Second and Third Years of the Faculty should be made to the Registrar's Office on the proper forms, and must be accompanied by complete details of previous university work.

MEDICAL EXAMINATION, ETC.

(See page 95.)

REGISTRATION

STUDENTS IN COMMERCE ARE REQUIRED TO REGISTER ON SEPTEMBER 26TH, 27TH, OR 28TH. STUDENTS OF ALL YEARS ABOVE THE FIRST, WHO REGISTER AFTER THE OFFICIAL REGISTRATION DAYS, MUST PAY A LATE REGISTRATION FEE. FOR REGISTRATION DURING THE FIRST WEEK OF THE SESSION, \$5.00. FOR REGISTRATION DURING THE SECOND WEEK OF THE SESSION, \$10.00. THIS FEE IS NOT REFUNDED EXCEPT FOR SATISFACTORY REASONS AND BY AUTHORIZATION OF THE FACULTY OF ARTS AND SCIENCE. AFTER THE 18TH DAY OF OCTOBER NO PERSON IS ADMITTED TO THE SCHOOL WITHOUT THE SPECIAL PERMISSION OF THE FACULTY.

Students who wish to make a change in their choice of studies must make application to the Registrar to do so, on a regular form. No change in registration will be allowed, except under special circumstances, after the twentieth day of the session.

ATTENDANCE

Students are required to attend at least seven-eighths of the total number of lectures in each course. If the unexcused absences are more than one-eighth but not less than one-quarter of the total number of lectures in a course, the student is not allowed to take the sessional examination in that course, but may take a supplemental. If, however, the unexcused absences amount to one-quarter or more of the total number of lectures the student is required to take the course over again.

Excuses on the ground of illness or domestic affliction are dealt with only by the Dean.

Credit for attendance at any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. Serious breaches of discipline are dealt with by the Dean of the Faculty.

Lectures commence at five minutes after the hour on the conclusion of the roll call, and end at five minutes before the hour. Two lates count as one absence.

In cases where it is impracticable to record late attendance, students are marked absent.

EXAMINATIONS AND ADVANCEMENT FROM YEAR TO YEAR

Information concerning examinations, supplemental examinations, and advancement from year to year is given on page 103.

FEES

For fees in the Accountancy Diploma Course for Students of the Accountancy Associations of the Province of Quebec, see page 211.

Tuition Fees.

1.	Annual undergraduate fee	\$235.00
	By instalments: Each of two instalments	120.00

2. Limited Undergraduate Students:-

In the First Year, per course	40.00
In other years, per course	60.00

3. Partial Students:-

Per hour of instruction per week for a full course 20.00 The total partial fee will not exceed the full undergraduate fee.

Other University Fees

4.	Late registration, after September 28th	5.00
	Late registration, after October 6th	10.00
	Duplicate Graduation Diploma	10.00
	Conferring degree in absentia	10.00
	Certified copy of student's record	1.00
	Additional copies (at same time)	.50
	Fine for late medical examination (see page 95)\$5.00 or	\$10.00
	Supplemental Examinations, each paper	10.00
	Receipts for supplementals must be shown to the Dean's	

Office before the examination.

Evaluation and registration of certificate exempting from the whole or part of the McGill Junior Matriculation certificate 2.00

5. Caution Money:—Every student is required to make a deposit of \$10.00 as Caution Money to cover damage done to furniture, apparatus, books, etc. This amount, less deductions, is returned at the close of the session.

Students' Activities

6. A sessional fee of \$17.00 is payable by all men undergraduates and \$12.00 by all women undergraduates, for the support of student organizations, for the rinks and tennis courts, and for admission to all home games under the control of the Athletics Board. 7. Partial students pay \$3.00 for athletics and athletic grounds. If they desire such of the privileges of Section 6 as are open to them, an additional \$9.50 is charged for men students and \$5.50 for women students.

General Regulations

8. Fees are due and payable at the Bursar's Office between the hours of 9 a.m. and 1 p.m., and 2.30 to 4 p.m. on the following dates:—

Tuesday, October 8th Wednesday, October 9th Thursday, October 10th

or if desired fees may be remitted by mail before the above dates.

The second instalment of tuition fees is due and payable on February 1st. An additional \$2.00 is charged for payment after the specified dates.

- Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of Regulation 8.
- 10. Any student who fails to pay his fees within a month of the prescribed date is suspended until all the fees due have been paid.
- 11. All fees are payable in Canadian currency.

BOARD AND RESIDENCE, ETC.

(See page 100.)

MEDALS

A silver medal and a bronze medal have been offered to the School of Commerce by his Honour, the Lieutenant-Governor of the Province of Quebec, the silver medal for the student with the best average, throughout his four years of study, in Mathematics, Accountancy, Business Organization and Commercial Law; the bronze medal for the one who has the best average, throughout the four years of study, in the French and Spanish languages.

The Alliance Française Silver Medal is awarded to the student with the best average throughout the four years of study in the French language.

SCHOLARSHIPS AND PRIZES

The F. W. Sharp Prize in Accountancy and Mathematics will be awarded at the end of the Fourth Year to the best student in Accountancy, Business Organization and Mathematics. Value \$50.00.

The Royal Bank Fellowship in Economics, value \$1,000; open to candidates from all Canadian universities.

The Society of Chartered Accountants offers a share in its War Memorial prize to the Commerce Graduate who obtains the highest percentage at the final examination for the diploma of C.A.

Joseph H. Jacobs Prize.—The sum of \$650.00 was received from the executors of the estate of the late Joseph H. Jacobs. The annual revenue from this bequest, which is approximately \$25 will be awarded as a prize for Second Year Accounting.

Spanish Government Prize.—Prize of books to be given in the Fourth Year, or in the Third and Fourth Years at the discretion of the Department.

BURSARIES

Ten bursaries of \$100 each, two for each of the five sessions from 1934-35 to 1938-39 have been given to the University by the Montreal Alumni Club of the Sigma Alpha Mu Fraternity. These bursaries are open to men students in any Faculty. Need and scholarship determine the award. Applications in writing should be made to the Registrar before the end of June.

Three bursaries of \$100 each for the 1935–36 session have been given to the University by the Mount Royal Lodge of Bnai Brith. These bursaries are open to men and women students in any Faculty. Need and scholarship will determine the award. Applications in writing must reach the Registrar before the 30th of June, 1935.

LOAN FUNDS

Commercial Society Loan Fund

A fund has been established by the Commercial Society to be known as "The Commercial Society Loan Fund," for the purpose of aiding each year one or more students of the School of Commerce who are entering their fourth year, to complete their course. Loans from this Fund are repayable within two years after graduation. Applications should be made to the Director of the School of Commerce.

University Loan Fund

A Student Loan Fund has been established by the University to assist needy students in the upper years of all Faculties. Loans are made only to students with good academic standing.

For further particulars students should consult the Dean of the Faculty.

COURSES FOR THE DEGREE OF BACHELOR OF COMMERCE

The courses extend over four years, and students who successfully complete them are granted the Degree of Bachelor of Commerce (B. Com.).

The curriculum, which may undergo modification before the beginning of the session, is now as follows:—

FIRST YEAR

Obligatory Subjects

English 1 and 2.

Mathematics 1.

French, or Spanish, or German.

Theory and Practice of Accounts.

Optional Subjects (two to be chosen)

Latin, or Greek.

German, or Spanish, or French.

Physics, or Botany, or Zoology, or Chemistry 1B.

History 1.

N.B.—Students intending to take Mathematics 4 in the Second Year must obtain 65 per cent in the Mathematics of the First Year.

SECOND YEAR

Obligatory Subjects

French 12, or Spanish, or German (continued).

Theory and Practice of Accounts.

Optional Subjects (three to be chosen)

Economics 21.

English.

Mathematics 42.

Mathematics 2 or 4.

Psychology.

German, or Spanish, or French 12 (continued).

Chemistry.

- N.B.—(a) Students proceeding to Mathematics 8 in the Fourth Year must pass in Mathematics 42, and in Mathematics 2 or 4, with high marks.
 - (b) Mathematics 42 is a prerequisite to Third and Fourth Year Accountancy and to Mathematics 43.
 - (c) Economics 21 is necessary for students proceeding to the diploma of Licentiate in Accountancy of McGill University (see page 190).

THIRD YEAR

Obligatory Subjects

French 13, or Spanish or German (continued for students who have taken one of these subjects during their First and Second Years).

Optional Subjects (four 3-hour courses, or their equivalent, to be chosen).

Theory and Practice of Accounts.

Business Organization and Scientific Management.

Industrial Psychology 11 (half course).

Psychology of Aptitudes 10 (half course).

Commercial Law.

Economics 22.

Economics 24 and 25.

English.

Mathematics 43.

Spanish, or French or German (continued).

- N.B.—(a) Only half credit is given to a second modern foreign language begun after the Second Year. Students should further note that time-table complications may make it impossible to begin a second language in any year except the First.
 - (b) Mathematics, 2 or 4, and 42 and 43 must be taken by students proceeding to Mathematics 3 or 8 in the Fourth Year. High standing is required.
 - (c) First and Second Year Accountancy are prerequisites to Accountancy in this Year.
 - (d) Economics 21 is a prerequisite to all the other courses in this Department.
 - (e) Second Year Psychology is a prerequisite to Industrial Psychology.

FOURTH YEAR

(Five 3-hour courses, or their equivalent, to be taken.)

French 14 (continued).

Spanish (continued).

Theory and Practice of Accounts.

Business Organization and Scientific Management, if not taken in Third Year.

Industrial Psychology 11 (half course).

Psychology of Aptitudes 10 (half course).

Mathematics 8.

Mathematics 3.

Mathematics 43.

Commercial Law.

Marine Insurance and Transportation (half course).

Economics 27.

Economics 28 and 29.

English.

- N.B.—(a) Third Year Accountancy, Mathematics 42, and Third Year Commercial Law are all prerequisites to Fourth Year Accountancy.
 - (b) Economics 21 is prerequisite to all the courses in Economics in the Fourth Year.
 - (c) The Mathematical courses prescribed in the first three years are all prerequisites to Mathematics 8 in the Fourth Year.
 - (d) Mathematics 43, English, and Business Organization and Scientific Management can be taken in either the Third or the Fourth Year.
 - (e) Candidates proceeding to the diploma of C.A. must take the Commercial Law course in both Third and Fourth Years, and also Business Organization and Scientific Management.

Students are responsible for seeing that courses chosen do not conflict as regards hours of lectures.

THE MASTER OF COMMERCE DEGREE

Bachelors of Commerce who have taken Economics 21, 22, 24, 25, 27, 28, 29, and have obtained a sufficiently high standing may proceed to the Master of Commerce Degree. For particulars see page 387.

DIPLOMA OF LICENTIATE IN ACCOUNTANCY

To obtain the Diploma of Licentiate in Accountancy, which carries with it right of entrance into the Society of Chartered Accountants of the Province of Quebec, or into the Institute of Accountants and Auditors of the Province of Quebec, or into the Corporation of Public Accountants of the Province of Quebec, the student must satisfy the following conditions:—

- (a) He must pass all the examinations required for, and leading up to, the Degree of Bachelor of Commerce.
- (b) In the School of Commerce he must take the four courses in Theory and Practice of Accounts, the two courses in Commercial Law, and the course in Business Organization and Scientific Management.
- (c) He must spend at least one year, subsequent to his obtaining the Degree of Bachelor of Commerce, in the office of a practising accountant.
- (d) He must have attended as an undergraduate, Economics Course No. 21, the courses in Mathematics 42 and 43 given in the Second, Third, and Fourth Years, and have obtained at least 50 per cent of the marks obtainable at the examination in this subject. In Commercial Law of the Third and Fourth Years all Commerce students, including those proceeding to the diploma of Licentiate in Accountancy, must obtain a 55% average in all sections of the Commercial Law examinations and not less than 50% in each section.
- (e) He must attend the post-graduate course in Final Accounting and Auditing (see page 204).
- (f) He must then pass successfully the final examination in Accounting and Auditing before a board of six examiners composed as follows: the Director of the School of Commerce, two Professors of McGill University, a member of the Society of Chartered Accountants of the Province of Quebec, a member of the Institute of Accountants and Auditors of the Province of Quebec, and a member of the Corporation of Public Accountants of the Province of Quebec; or before a board of five examiners should one of the Associations mentioned fail to nominate its delegate, or of four examiners should two do so, or of three, if all.

McGill University has entered into an agreement with the Society of Chartered Accountants of the Province of Quebec, with the Institute of Accountants and Auditors of the Province of Quebec, and with the Corporation of Public Accountants of the Province of Quebec, whereby the candidates of these Associations (non-graduates) take the final examinations conjointly with the University candidates. The papers set are the same for both classes of candidates, but the University retains its own Board of Examiners according to the provisions laid down in Bill No. 21.

The Society of Chartered Accountants of the Province of Quebec has agreed to accept apprenticeship in an Accountant's Office anywhere in Canada.

Graduates must exert themselves to find an Accountant's Office willing to accept them during their period of apprenticeship. The University has no obligation in the matter.

ACCOUNTANCY DIPLOMA COURSE

Details of the Accountancy Diploma Course for students of the Accountancy Associations of the Province of Quebec will be found on pages 203 to 211.

FINAL ACCOUNTING AND AUDITING

For details of the course and examination in Final Accounting and Auditing, see pages 204 and 208.

COURSES OF LECTURES

THE THEORY AND PRACTICE OF ACCOUNTS

The accountancy work has been carefully graduated and correlated and is intended not merely to fulfil its part in a general scientific business training, but also to prepare and assist those who purpose taking up accountancy as a profession.

No previous knowledge of bookkeeping is assumed or required; the subject is developed rapidly along the lines that prevail in practice.

FIRST YEAR

The principle of debit and credit; books of original record; documents employed; sales, purchases, consignments; returns inwards and returns outwards; subsidiary ledgers, and controlling accounts to represent them in the general ledger; special forms of cash-book required to facilitate such control; notes and drafts, discounting and renewal of notes; single entry; revenue and capital expenditure; trading, and profit and loss statements and balance sheet; single proprietorships.

The student is required to sift and classify his detail, write up all the books of record and account, and focus results of the various transactions into the final statements.

SECOND YEAR

Special problems that occur in connection with partnerships: The deed of partnership; rights of partners; effects of dissolution; methods of distributing profits; the bringing in of other partners; goodwill; transformation of a firm into a corporation; departmental accounts; organization and internal check; distribution of expenses over departments; comparison of results shown with those of other periods; chain-stores; manufacturing accounts; the elements of cost accounting; building up C.I.F. and other quotations; the voucher-register, depreciation and methods of providing for it; reserves; elementary company finance.

THIRD YEAR

- (a) Theory of the Balance Sheet: Its form and elements; capital and revenue receipts and expenditures; valuation of fixed and current assets and liabilities; wasting assets; capital and revenue profits and losses; comparative balance sheets and statements and deductions to be drawn from them; surplus statements.
- (b) Corporation Finance: Interior organization of the corporation; stock and bond issues; initial operations; earnings and their disposition; secret reserves; betterments; surplus; control exercised by directors and majority stock-holders; its abuse; different bases of capitalization; bonus stock; treasury stock; watered stock; discount and premium on bond issues; sinking funds.
- (c) Ccst Accounting: General considerations; advantages of cost systems; different methods of distributing overhead expense; comparison of costing estimates with general books; total cost and selling-price.
- (d) Auditing: Elementary considerations; audit-programme for simple trading concern.
 - (e) Budgeting, and budgetary control.

FOURTH YEAR

(Intended especially for students proceeding to a Diploma in Accountancy, although this course may be taken by all students who have reached the required standard.)

Cost Accounting: Control of stores, the running inventory; remuneration of labour; leakage in factories; forms used in "job and process" costing systems; connection of cost records with general accounts.

Export Houses and Branches: Accounts of head office and of branches; goods invoiced at cost, intermediate, and selling price; chain-stores; foreign exchange.

Consolidations, Amalgamations, Mergers: Consolidated statements and balance-sheets; holding corporations; control of stock and bond issues; minority holdings; advances to subsidiaries; intra-combine profits and liabilities; initial surplus and goodwill.

Insolvency Accounts: Statement of affairs; deficiency statement; realization and liquidation account.

Auditing: Considerations applicable to all undertakings, and special considerations applicable to particular concerns; auditors' rights and duties; audit-certificates.

Trustees' Accounts: Executorships and administratorships; accrued claims and income, corpus and income; division of an estate.

Income Tax: General considerations; taxable and untaxable income. Instalment Sales.

Mon., Wed., Fri., at 11......Professor Thompson.

Text-Books:—120 Graduated Exercises in Book-keeping, etc., and Key, Thompson, Pitman, Toronto (First and Second Years). Accounting, Smails and Walker, Ryerson Press, Toronto (First, Second and Third Years), Limited Companies and their Accounts, Ferguson & Crocombe, Commercial Text Book Co., Toronto (Third Year), Accounting, Kester, Ronald Press, New York. Vol. 1 (Second and Third Years). Vol. 2 (Fourth Year). Cost Accounting (Third and Fourth Years), Lawrence, Prentice-Hall, New York.

BUSINESS ORGANIZATION AND SCIENTIFIC MANAGEMENT

Commercial Organization: Origin, growth and classification of business organization; tests of efficiency in business organizations. Social and economic and legal aspects in the following types of organization: single proprietorship; partnership; joint stock company, public and private corporations; rights, duties, and liabilities of directors, officers, share-holders, and debenture-holders; agreements, pools, kartells, simple business trusts; combination trusts; securities-holding organization; amalgamation, and mergers; launching of an industrial enterprise; planning of a factory; purchase and control of raw materials; labour and its control; wage systems, welfare work; reorganization of a factory; committee system; location of industries; principles and types of management; departmental relations; standardization and equipment; standardized operations; adequate records; efficiency rewards.

Text-books:—Business Ownership Organization, Stockder, Henry Holt, New York. Administration of Industrial Enterprises, Jones, Longmans Green, Toronto.

CHEMISTRY

The course includes a study of the more important elements and compounds, general laws and principles and fundamental theories; with as many industrial applications as time will allow. The lectures are illustrated and the general intention of the course is to give a training in the principles of the science, so that chemical problems arising in connection with future work and study may be intelligently considered.

Text-book:—McPherson and Henderson, "A Course in General Chemistry."

COMMERCIAL LAW

THIRD YEAR

- (1) Law of Contracts (16 lectures).
- (2) Agency, Partnership and Company Formation (16 lectures).
- (3) Negotiable Instruments and Banking Law (16 lectures).

Tues., Thurs., 5.30 to 7 p.m. Messrs. A. I. Smith and W. C. Nicholson.

FOURTH YEAR

- (1) Company Law (14 lectures).
- (2) Sale of Goods (14 lectures).
- (3) Trustees and Executors (8 lectures).
- (4) Bankruptcy and Winding-up Acts (8 lectures).

Tues., Thurs., 5.30 to 7 p.m.

Messrs. J. A. Mathewson, W. C. Nicholson, K. A. Wilson and L. Rodier.

Further details of these courses in Commercial Law will be found on pages 204 and 205.

ECONOMICS AND POLITICAL SCIENCE

SECOND YEAR

21. Elements of Political Economy.

THIRD YEAR

22. Economic Distribution.

Rents, wages, interest, profits, population, socialism and social reforms.

23. Elements of Political Science and Comparative National Government and Taxation.

General principles of government, and national government and taxation in Great Britain and the United States.

First term; Mon., Wed., Fri., at 12...... Professor Leacock. (Not given in 1935-36)

24. Government of Canada.

Federal, provincial and municipal government and systems of taxation. Qualified Commerce students may, with the consent of the Department, take the corresponding Arts and Science Course No. 8.

25. International Trade and Trade Policy.

First term (Not given in 1935-36)......Professor Day. Qualified Commerce students may, with the consent of the Department, take the corresponding Arts and Science Course No. 11.

26. Social and Industrial Legislation.

A study of legislation to include factory acts, labour legislation, pensions, insurance, etc.

Second term (Not given in 1935-36) Mr. Forsey.

Qualified Commerce students may, with the consent of the Department, take the corresponding Arts and Science Course No. 13.

FOURTH YEAR

27. Economic Theory of Exchange.

Value, price, money, credit, and banking,

28. Canada—Economic Problems.

29. Canada-Economic Problems.

ENGLISH

The courses in English give a general training in Composition and require a broad study of English Literature with a large amount of reading.

FIRST YEAR

English 1, English Composition one hour a week. Weekly individual conferences with the instructor are required.

English 2, English Literature, as prescribed for students in the Faculty of Arts and Science—a general outline course from Chaucer to Kipling. Readings and fortnightly individual conferences. Two hours a week. Professor Macmillan and an assistant.

SECOND YEAR

English Literature: Choice of Second Year Arts and Science courses.

THIRD OR FOURTH YEAR

A choice of any General Arts and Science courses in English in these Years.

FRENCH

The study of French is first approached from the literary side, both in order to increase its value to the student as an element of culture and in order to afford a sufficient background for the commercial studies which come later. These commercial studies begin in the Second Year, and comprise about half of the work done in that Year. In the Third Year work is almost entirely of a commercial character.

The following is a synopsis of the work:-

FIRST YEAR

French Language and Literature (Arts and Science 1).

Section A, Mon., Wed., Fri., at 9; Section B, Mon., Wed., Fri., at 11......Professors du Roure, Villard, Furness, d'Hauteserve, and Mlle. Henry.

Texts:—(a) General Course.—Green and Ford, French Composition (Oxford); Lavisse, Histoire de France, Cours moyens; Eugene, Labiche, La poudre aux yeux; Maupassant, Contes Choisis; A. Dumas, Les Trois Mousquetaires (Heath); Hugo, Gavroche (Oxford). (b) Advanced Course.—Buffum, French Short Stories (Holt); Racine, Andromaque (Ginn); Jules Romain, Knock ou le Triomphe de la médicine (The Century Co.); Molière, Les Précieuses Ridicules (Heath); Moraud, French Composition (Oxford).

Students may take either the General Course or the Advanced Course.

SECOND YEAR

French Commercial Course (Arts and Science 12).

Mon., Wed., Fri., at 12......Professor Villard.

Texts:—Badaire: Précis de Littérature Française (Heath); Sand, La Mare au diable (Ginn); Daudet, Lettres de mon moulin (Oxford); Carroué, Manuel de correspondance commerciale; Renault, Lectures commerciales (Oxford).

Readings:—Augier, Le Gendre de M. Poirier; Mérimée, Contes et nouvelles (Oxford).

THIRD YEAR

French Commercial Course (Arts and Science 13).

Texts:—Badaire: Précis de Littérature Française (Heath); Montesquieu, Lettres persanes (Macmillan); T. B. Rudmose-Brown, French Short Stories (Oxford); Chateaubriand, Atala (Heath); Janau, Commercial correspondence (Longmans); Daniel Massé, Initiation économique (Hachtte); Févre, Nouvelles leçons de géographie (Alcan).

Readings:- Jago, La France qui travaille (Heath); Mérimée, Colomba.

FOURTH YEAR

French Commercial Course (Arts and Science 14).

Readings:—Roe, La France laborieuse (Nelson); Calvert, The French newspaper (Oxford).

GERMAN

The Arts and Science courses in German are available to Commerce students.

Provision is also made for instruction in commercial correspondence.

MARINE INSURANCE AND TRANSPORTATION

The documents involved in overseas commerce, the essential features of bills of lading and charter parties, and existing legislation affecting the rights and obligations of carriers and shippers; the origin and development of General Average and Maritime Salvage, and the existing law and practice; the Marine Insurance Act 1906, the existing procedure with regard to the insurance of vessels, cargo and freight, the analysis of current policy forms, and the adjustment of claims.

Wed., at 12......Mr. F. S. Symons

MATHEMATICS

1. Mathematics (For First Year students).

Geometry and Trigonometry. Three hours, first term.

Algebra. Three hours, second term......Professor Tate.

Text-books:—W. G. Borchardt, A Second Course in Algebra (Rivingtons). Hall and Knight, Plane Trigonometry (Revised Canadian Edition); Hall and Stevens, School Geometry, Parts I to VI.

42. Mathematics (For Second Year students).

Theory of Interest and Elementary Statistics.

43. Mathematics (For Third Year students).

Elements of Coordinate Geometry and Calculus with applications to more advanced statistics.

The following Arts and Science courses in Mathematics are also open to qualified students in the School of Commerce during the Second, Third and Fourth Years:—

2. Elementary Analysis.

3. Calculus.

Three hours during the session, Mon., Wed., Fri., at 10.

Professor Sullivan.

4. Algebra and Analytical Geometry.

Three hours during the session, Tues., Thurs., Sat., at 12.

Dr. Ross.

8. Finite Differences and Theory of Equations.

Three hours during session Tues., Thurs., Sat., at 11. Professor Tate.

Text-books:—H. Freeman, Actuarial Mathematics; Burnside and Panton, Theory of Equations.

- (a) Courses 3, 4 and 8 are mainly intended for students who wish to enter the Actuarial profession.
- (b) Course 42 is a prerequisite for those who wish to take Third and Fourth Year Accountancy.
- (c) Courses 2 or 4, 42 and 43 are prerequisite for 8. High standing in these is required before proceeding to Course 8.

PHYSICS

A special course of General Physics for Commerce students including Elementary Mechanics, Heat, Light, Sound and Electricity. Two hours lectures and two hours laboratory work a week throughout the session. Lecturer: Prof. H. E. Reilley. The laboratory work is under the direction of Professor D. A. Keys.

Text-book:-Whitman's Household Physics.

PSYCHOLOGY

1. Introduction to Psychology. Second Year.

Mon., Wed., at 10 and one weekly laboratory period to be arranged. This course is a prerequisite for all other courses.

Professor Tait and Mr. Webster.

 Psychology of Aptitudes (half course). Third and Fourth Years.

Methods of measuring and evaluating human qualities. Lectures, readings and reports.

11. Industrial Psychology (half course). Third and Fourth Years.

Applications of psychological method to human problems in business and industry. Lectures, readings, and reports.

SPANISH

FIRST YEAR

The work in the First Year consists of:-

Grammar, reading and dictation, oral exercises and composition.

Text-books:—Coester's Spanish Grammar; Jiménez's "Platero y yo"; Antologia de cuentos españoles (Heath & Co.); Cool's Spanish Composition; Historia de España (Romera-Navarro ed., Heath & Co.).

Students are required to attend extra classes provided for practice in dictation, etc.

SECOND YEAR

The work, as before, consists of grammar, practice in reading and speaking, dictation and composition. At the same time the student is given a further introduction to Spanish literature.

SPANISH 201

Text-books:—Cervantes, selections from Don Quijote, Ford, Heath & Co.

Short Stories, Pardo Barzán (Henry Holt & Co.).

Nociones de Literatura Castellana (Romera de Terreros).

Cool's Spanish Composition

Temas españoles (Crawford ed. Henry Holt & Co.).

THIRD AND FOURTH YEARS

Alternate Courses

Third and Fourth Years together.

(a) Given in 1935-36.

Study of the literature of the XVIIIth century.

Text-books required:-

Moratín, "El sí de las niñas" and "La comedia nueva."

(The Century Company, New York & London). Jovellanos,

"El delincuente honrado" (The Century Company). Cadalso,

"Noches lúgubres" (Liverpool, The Bulletin of Spanish Studies).

Rogerio Sanchez, "Antología de la literatura española."

(Heath & Co.) Costello y Montgomery, "Advanced Spanish Composition," (Johnson Publishing Co.).

(b) Given in 1936-37.

Literature of the XIXth century (further details to be given in next Announcement).

SCHOOL OF COMMERCE LECTURE TIME-TABLE, 1935-36

Including the Accountancy Diploma Course lectures for students of the Accountancy Associations of the Province of Quebec.

Hour	Year	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9–10	1 2 3 4	Mathematics French Accountancy French, 14	Botany, 1 Economics, 21 Spanish	Mathematics French Accountancy French, 14	Botany, 1 Economics, 21 Spanish	{Mathematics French Accountancy French, 14	Economics, 21 Spanish
10–11	1 2 3 4	Psychology, 1- Mathematics, 2, 3 French, 13 Economics, 28, 29	Spanish Mathematics, 42 Accountancy Economics, 27	Psychology, 1 Mathematics, 2, 3 French, 13 Economics, 28, 29	Spanish Mathematics, 42 Accountancy Economics, 27	Psychology, 1 Mathematics, 2, 3 French, 13 Economics, 28, 29	Spanish Mathematics, 4 Accountancy Economics, 27
11–12	1 2 3 4	{French, Zoology Mathematics Economics, 22 Accountancy	History Spanish Business Orgn. Maths. 8	French Mathematics Economics, 22 Accountancy	History Spanish Business Organ. Maths. 8	French, Zoology Mathematics Economics, 22 Accountancy	History Spanish Business Orgn. Maths. 8
12-1	1 2 3 4	Accountancy French, 12 Psychology, 10, 11	English, 2 Mathematics, 4, 43	Accountancy French, 12 Marine Insurance Psychology 10, 11	English, 2 Mathematics, 4, 43	Accountancy French, 12 Psychology 10, 11	Mathematics, 4, 43
2-3	1 2 3	Chemistry, 1B		Chemistry, 1B Zoology Lab. (2 to 5 p.m.)		Chemistry, 1B	
3-4	1 2 3	Botany Lab. Economics, 24		Economics, 24		Economics, 24	
4-5	1 2 3	Physics, 1C Botany Lab.	Physics, 1C	Physics Lab. (4 to 6 p.m.)		112	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
5.30-7.30		Accountancy (Final) (6 to 7.30 p.m.)	3 and 4 Years Commercial Law (Inter. and Final) (5.30 to 7 p.m.)	Accountancy (Inter.) (6 to 8 p.m.) Mathematics (Final) (6 to 8 p.m.)	3 and 4 Years Commercial Law (Inter. and Final) (5.30 to 7 p.m.) Accountancy (Final) (6 to 7.30 p.m.)	Mathematics (Inter.) (6 to 8 p.m.) Economics (Final) (6 to 7 p.m.)	*

ACCOUNTANCY DIPLOMA COURSE

For students of the Accountancy Associations of the Province of Quebec.

For fees see page 211.

These courses given in the evenings are primarily intended for students of the Accountancy Associations of the Province of Quebec but are also open to any others who wish to take them.

Students register and pay the required fee at the first or second lecture of the course they are taking.

For details concerning the Accountancy Associations students should consult:—

Mr. Robert Wilson, C.A., Secretary, The Society of Chartered Accountants of the Province of Quebec, 215 St. James St. West.

Mr. A. J. M. Petrie, C.P.A., Secretary, Corporation of Public Accountants of the Province of Quebec, 360 St. James St. West.

Mr. H. J. Ross, L.I.A., Secretary, Institute of Accountants and Auditors, 771 Burnside Street.

INTERMEDIATE ACCOUNTING AND AUDITING

Twenty-eight lectures, of two hours each, given on Wednesdays, from 6 to 8 p.m., commencing October 2nd, 1935.

The work covers matter outlined for the first two years of the regular Commerce course, with the addition of elementary auditing.

INTERMEDIATE MATHEMATICS

Twenty lectures of 2 hours each, given on Fridays, from 6 to 8 p.m. commencing October 4th, 1935.

Arithmetic and geometric progressions; indices; logarithms; permutations and combinations; binomial theorem; theory of quadratic equations; approximations; graphs; simple and compound interest; annuities and sinking funds.

Text-books:—Borchardt, W. G., a second course in Algebra (Rivington's, London). H. Tate, Interest, Annuities and Bonds (Chaps. I, III).

Lecturer......Professor Herbert Tate.

INTERMEDIATE COMMERCIAL LAW

Forty-eight lectures, of 1½ hours each, given on Tuesdays and Thursdays, from 5.30 to 7 p.m., commencing October 1st, 1935. Of these lectures, 16 are devoted to the Law of Contracts, 16 to Negotiable Instruments, and 16 to Agency and Partnerships.

The matter covered may be outlined as follows:-

Law of Contracts

Sphere of Dominion and Provincial laws; persons (minors, interdicts, married women); distribution of property; essentials of contract (consent, capacity, object, consideration); interpretation; effects; breach.

Negotiable Instruments and Banking

Characteristics of negotiability; Bills of Exchange Act; form, acceptance; delivery; capacity and authority of parties; consideration; negotiation; endorsements; presentment; dishonour; protest; liabilities of parties; discharge; lost instruments; forgeries or unauthorized signatures; alterations; bills in a set; cheques: promissory notes.

Bank Act.—Organization of a bank; rights and duties of directors and shareholders; auditors; powers of a bank with respect to loans; security; deposits and note issue.

Agency and Partnerships

General provisions covering mandate; obligation of mandatory towards mandator, and towards third parties; obligations of the mandator towards the mandatory and towards third persons; résumé of law covering advocates, attorneys, notaries, brokers, factors, etc.; termination of mandate.

General provisions relating to partnership; obligations and rights of partners amongst themselves and towards third parties; different kinds of partnership, particular partnerships, general partnerships, anonymous partnerships, and limited partnerships; dissolution of a partnership, and the effects of such dissolution.

Lecturers Mr. A. I. Smith and Mr. W. C. Nicholson.

FINAL ACCOUNTING AND AUDITING

For Examination in Final Accounting and Auditing, see page 208.

This course consists of (a) general series comprising 32 lectures of $1\frac{1}{2}$ hours each, and (b) a special series comprising 14 lectures of $1\frac{1}{2}$ hours each. Mondays and Thursdays, from 6 to 7.30 p.m., beginning September 30th, 1935.

General Series

This portion covers the following subject matter:-

Capital, its issue and recording in the books of a company; bonds and bond discount and premiums; current and fixed assets and liabilities; capital and revenue profits and losses; criticism of operating statements and balance sheets for successive periods; cost accounting; partnership; instalment sales; branch accounts; holding companies and subsidiaries; reorganizations; mergers and amalgamations; executorship and trustee accounts; bankruptcy; auditing generally.

Lecturers: Professor R. R. Thompson and Mr. P. F. Seymour.

Special Series

This series includes special consideration of the following subjects:— Income tax; insurance and banking; working papers; investigations; brokers' accounts, etc.

Lecturers: Messrs. G. Hunter, H. D. Clapperton, D. Young, A. A. Gowan, P. F. Seymour, and T. P. Jones.

FINAL MATHEMATICS

Elements of Actuarial Science

Twenty lectures, of 2 hours each, on Wednesdays, from 6 to 8 p.m. beginning October 2nd, 1935.

The course embraces:-

The amortization schedule; straight-term, serial and annuity bonds; depreciation; building and loan associations. Elementary Insurance. Elementary Statistics.

FINAL COMMERCIAL LAW

Forty-four lectures, of 1½ hours each, given on Tuesdays and Thursdays, from 5.30 to 7 p.m., beginning October 1st, 1935. Of these lectures, 14 are devoted to the Sale of Goods; 14 to Company Law; 8 to Trustees and Executors, and 8 to Bankruptcy and Winding-up.

Sale of Goods: General provisions regarding sales; capacity to buy and sell; things which may be sold; obligations of the seller; delivery; warranty against eviction and latent defects; obligations of the buyer; dissolution and annulment of contract of sale; right of redemption; annulment on account of lesion; sales by licitation; sales by auction; bulk sales; forced sales and giving in payment.

Company Law: The Companies' Act (Dominion) and its amendments; the Quebec Companies' Act, 1920, and its amendments. (In these Acts, Part 1 is principally dealt with. The statutory provisions are explained and illustrated by citation and discussion of jurisprudence.)

Trustees and Executors: Provisions of the Civil Code dealing with persons administering funds belonging to others; status of married women; law applying to tutors and curators; law relating to succession.

Bankruptcy and Winding-up: Provisions of the Bankruptcy Act; the Dominion Winding-up Act; law of the Province of Quebec relating to the voluntary winding-up of companies. (The statutory provisions are explained and illustrated by citation and discussion of jurisprudence.)

Lecturers: Messrs. J. A. Mathewson, W. C. Nicholson, K. A. Wilson and L. Rodier.

ECONOMICS

Course of 20 lectures, of 1 hour each, on Elementary Economics. On Fridays, from 6 to 7 p.m., beginning October 4th, 1935.

Text-book:—Clay, Economics for the General Reader (Macmillan).

N.B.—Hours and date of lectures are always subject to change for sufficient cause.

EXAMINATIONS

Examinations are held at the end of each of these courses.

Pass Marks

In Economics and Mathematics the pass-mark is 60%.

In Intermediate Accounting and Auditing the pass mark is 55% in each paper with an average of 60% in all the papers of the course.

A student who obtains less than 40% in any of the above examinations must repeat both the course and all the examinations of the course.

A student who fails but obtains 40% or more is required only to repeat all the examinations of the course. (For fees for re-examination see page 211.)

In Intermediate and Final Commercial Law the pass mark is 50% in each paper with an average of 55% in the course as a whole. Any student who fails in any paper in Commercial Law must repeat both the course and all the examinations of the course, but any student who passes in each paper but fails to obtain the 55% average is required only to repeat the examinations of the course.

Advancement

Candidates may proceed from the Intermediate to the Final stage, if conditioned in not more than one subject, which must not be Accounting and Auditing. For the purposes of this regulation, Commercial Law constitutes one subject and Mathematics one subject. No student can, however, sit for the Final Examination in Accounting and Auditing who has not passed all his Intermediate examinations and Final examinations in Commercial Law, Mathematics, and Economics.

Applications

Students wishing to re-write any of these examinations must apply in writing, before March 20th, to Professor R. M. Sugars. Applications must be accompanied by the required fee (see page 211). Candidates must also state when the lectures in connection with each examination were taken.

Students who reside outside of Montreal and district and are therefore not qualified by attendance at the course may write the examinations on payment of the required fee (see page 211). Applications must reach Professor R. M. Sugars before March 20th.

Outside Examination Centres

Outside examination centres may be established in special circumstances. Applications should be made to Professor R. M. Sugars before March 20th. Candidates will be required to pay all invigilation and other expenses, in addition to the regular examination fee.

FINAL EXAMINATION IN ACCOUNTING AND AUDITING

The Final Examination in Accounting and Auditing is held in May each year, before a joint board of examiners, consisting of the six mentioned on page 190 and of two members named by each of the three Accountancy Associations of the Province.

A student can sit for this examination only if he has passed all the Intermediate examinations and the Final examinations in Commercial Law, Mathematics and Economics. It can be written only by members of the Accountancy Associations and students are advised to acquaint themselves with the rules and by-laws of their Association. The names and addresses of the secretaries of the various associations are given on page 203.

Applications and Fees

Application to write the examination must be made in writing before April 25th. McGill graduates apply to Professor R. M. Sugars; students of the Accountancy Associations to the Secretary of the Association to which they belong. Applications must be accompanied by the special examination fee of \$25. In the case of McGill graduates this fee is paid to the University, and in the case of non-graduates to the Association with which the applicant is connected. Applications must also be accompanied by a certificate of one year's apprenticeship in the firm of a member of one of the associations.

Pass Marks

In order to pass a student must obtain 60% or more of the marks assigned, with not less than 55% in either of the subjects. A student who fails may, on repayment of the examination fee, present himself again for the examination in the following May. If he has obtained less than 40% he must also repeat the course in Final Accounting and Auditing, paying the regular tuition fee of \$35.

Previous Examination Papers

Previous examination papers may be obtained from the Bursar's Office, McGill University, for 25 cents a set.

Outside Centres

Candidates writing the Final Examination in Accounting and Auditing in outside centres (see page 207) will be required to pay a fee of \$50. This includes the \$25 examination fee, and covers invigilation and other expenses.

SUPPLEMENTARY COURSES

The following courses are not required by the Accountancy Associations but are offered by the University to supplement the required Courses. An examination is held at the end of each course.

ELEMENTS OF ACCOUNTING

Twenty-five lectures of two hours each, given on Mondays, from 6 to 8 p.m., commencing October 14th, 1935.

The work covers matter outlined* for the first year of the regular Commerce course, and is intended for less experienced students. Those who pass in this course may join the Intermediate course of the succeeding session at the commencement of the Second Term.

Lecturer......Professor R. R. Thompson.

BUSINESS FINANCE AND ACCOUNTING

Twenty-five lectures of one hour each, given on Fridays, from 7 to 8 p.m., commencing October 18th, 1935.

This course comes between the Intermediate and Final Accounting and Auditing, and is valuable to students who wish to keep in touch with Accounting problems. It covers the formation, organization, finance and accounting of incorporated companies, different classes of share capital and their issue, bonds at discount and premium, valuation of assets, capital and revenue profits and losses, contracts, criticism of operating accounts and balance sheets, branches, cost accounts.

Lecturer......Mr. D. R. Patton.

APPLIED THEORY OF ACCOUNTING AND AUDITING

Twenty lectures of two hours each, given on Wednesdays, from 6 to 8 p.m., commencing October 16th, 1935.

This course runs parallel to the Final Accounting and Auditing course, covering the same ground, and supplementing it with numerous problems and examples.

Lecturer......Mr. P. F. Seymour.

ADVANCED COST ACCOUNTING

Thirty lectures of one hour each, given on Tuesdays, from 6.30 to 7.30 p.m., commencing October 1st, 1935.

This course is designed for those having an elementary knowledge of Cost Accounting principles and procedure. It considers estimating cost systems, budgetary control, Standard Costs, Interest on Investment, Uniform Cost Methods, Building up a Cost Sheet, Debatable Methods of Procedure, Defective and Spoiled Work, By-Products, Idle and Non-Productive Time, Weighted Averages, Relative Values, Statistical and Graphical Cost Reports, Statements.

INDUSTRIAL MANAGEMENT

Thirty lectures of one hour each, given on Tuesdays, from 7.30 to 8.30 p.m., commencing October 1st, 1935.

This course covers legal and internal forms of organization; location, construction and layout of plant; executive functions; production control methods; wage and bonus systems; personnel management; purchase and control of materials; sale and shipment of finished goods.

FEES IN THE ACCOUNTANCY DIPLOMA COURSE

FEES IN THE ACCOUNTANCY DIPLOMA COURSE	
Fees in the special Accountancy Diploma Course for student	s of the
Accountancy Associations of the Province of Quebec:—	01 0110
Accounting and Auditing (Intermediate)	\$30.00
" " (Final)	35.00
Commercial Law (Intermediate)	30.00
" (Final)	30.00
Mathematics (Intermediate)	20.00
" (Final)	20.00
Economics (Final)	15.00
Final Accounting and Auditing Examination Fee	25.00
(See page 208.)	20.00
Supplementary Courses	
Elements of Accounting	\$25.00
Business Finance and Accounting	15.00
Applied Theory of Accounting and Auditing	25.00
Advanced Cost Accounting	20.00
Industrial Management	20.00
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Examinations	
Students who reside outside of Montreal and district, and w	
to take the examinations, but who are not qualified by attendance	
course, pay an examination fee, equivalent to half the regular fee	for the
course, viz.:—	
Accounting and Auditing (Intermediate)	\$15,00
Commercial Law (Intermediate)	15.00
" (Final)	15.00
Mathematics (Intermediate)	10.00
" (Final)	10.00
Economics (Final)	7.50
Fees For Re-examination	
Accounting and Auditing (Intermediate) Elements of Accounting	\$5.00
" Partnership and manufac-	
" " Partnership and manufacturing Accounts	5.00
" " Partnership and manufacturing Accounts " " Auditing	5.00 5.00
" " Partnership and manufacturing Accounts " " Auditing	5.00 5.00 15.00
" " Partnership and manufacturing Accounts	5.00 5.00 15.00 15.00
" " Partnership and manufacturing Accounts	5.00 5.00 15.00 15.00 5.00
" " Partnership and manufacturing Accounts	5.00 5.00 15.00 15.00 5.00 5.00
" " Partnership and manufacturing Accounts	5.00 5.00 15.00 15.00 5.00
" " Partnership and manufacturing Accounts. " " Auditing. Commercial Law (Intermediate). Commercial Law (Final). Mathematics (Intermediate) Mathematics (Final) Economics (Final).	5.00 5.00 15.00 15.00 5.00 5.00
" " Partnership and manufacturing Accounts " " Auditing Commercial Law (Intermediate) Commercial Law (Final) Mathematics (Intermediate) Mathematics (Final) Economics (Final) Evaluation and Registration of Certificates	5.00 5.00 15.00 15.00 5.00 5.00 5.00
" " Partnership and manufacturing Accounts. " " Auditing. Commercial Law (Intermediate). Commercial Law (Final). Mathematics (Intermediate) Mathematics (Final) Economics (Final).	5.00 5.00 15.00 15.00 5.00 5.00 5.00

FACULTY OF ENGINEERING

ENTRANCE REQUIREMENTS

ARCHITECTURE

For admission to the School of Architecture, candidates must pass the Junior Matriculation Examination in the following subjects:

Maximum

	Marks	
1.	200	English.
2.	100	History.
3.	200	One of the following:—
		French, German, Spanish, Latin, Greek.
4.	200	Elementary Mathematics.
5.	200	Intermediate Mathematics.
6.	100	One of the following:—
		Botany, Chemistry, Physics, a Language already chosen.
	Total 1 000	and day of local.

Total 1,000

To pass, a candidate must obtain an average of 60% in the ten papers and not less than 40% in any one paper, and must show distinct mathematical ability. Details of the syllabi are given on page 74.

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Candidates must also satisfy the Head of the Department as to their proficiency in Freehand and Geometrical Drawing. To this end they may send in specimens of their work before September 20th, or they may take an examination at the time of the regular matriculation examination in that month.

ENGINEERING

Candidates for admission to the Faculty of Engineering for courses in the different branches of Engineering must either complete the first B.Sc. year of the Faculty of Arts and Science or pass the Senior Matriculation in the following subjects:—

(a) Compulsory:—
English, Mathematics, Physics, Chemistry.

(b) Electives:-

Any one of the following:—History, Biology, French, German, Greek, Latin, Spanish.

The pass-mark in each Senior Matriculation paper is 50%. The examinations are held in June and September. Full details are given on page 82.

APPLICATION FOR ADMISSION

Students desiring to enter the Faculty of Engineering must make their applications on forms which may be obtained from the Registrar's Office. Completed forms must reach the Registrar before September 15th.

MEDICAL EXAMINATION, ETC.

See page 95.

REGISTRATION, ATTENDANCE, DISCIPLINE, FEES, LODGINGS AND ESTIMATED EXPENSES.

REGISTRATION

Students entering the Faculty of Engineering for the first time must register at the Registrar's Office from September 23rd to 28th inclusive.

Other students register in the Macdonald Engineering Building on Friday, September 27th, but those who have no prerequisite conditions may register from September 23rd to 28th, inclusive, at the Registrar's Office. Students registering after September 28th, but not later than October 5th, are required to pay a late registration fee of \$5, which fee is increased to \$10 for students registering after October 5th. This fee is not refunded except by authorization of the Faculty. After October 15th, no student is admitted except by special permission of the Faculty.

ATTENDANCE

1. Students are required to attend at least seven-eighths of the total number of lectures or laboratory periods in any one subject.* The Faculty of Engineering has the authority of the Senate to modify this regulation except as regards students of the First Year, but only in so far as attendance at lectures is concerned. The Faculty regulations governing attendance are bulletined at the opening of each session. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course in which attendance is compulsory are not permitted to sit for the regular examination in that course, and those whose unexcused absences in such courses have exceeded one-fourth of the total number of lectures must repeat the work in that course.

Excuses on the ground of illness or domestic affliction are dealt with by the Dean only.

An excuse for absence due to illness is granted only when the application is accompanied by a certificate from the attending physician. Applications for all excuses must be filed with the Dean within three days after the period for which the excuse is requested.

Excuses granted must be shown to all professors concerned as promptly as possible.

2. An attendance record is kept by each instructor, which is submitted to the Faculty when required.

^{*}Physical education is included under this regulation.

- 3. Credit for attendance at any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. In the case last mentioned the student may, at the discretion of the Professor, be required to leave the room. Persistence in any of the above offences against discipline after admonition by the Professor, is reported to the Dean. The Dean may, at his discretion, reprimand the student, or refer the matter to the Faculty at its next meeting, and may in the interval suspend the student from classes.
- 4. Lectures commence at five minutes after the hour. After the commencement of a lecture students are not allowed to enter, except with the permission of the Professor. If permitted to enter, they report themselves at the close of the lecture and are marked "late." Two lates count as one absence. Lectures end at five minutes before the hour. In cases where it is impracticable to record late attendance, students who are not present at the commencement of these exercises are marked absent.

DISCIPLINE

The University Regulations concerning discipline are administered by the several Faculties and by the Senate Committee on Morals and Discipline, subject, when necessary, to revision or confirmation by the Senate.

FEES

Tuition Fees

- 1. Annual undergraduate fee \$260.00

 By instalments: Each of two instalments 132.50
- 2. Undergraduates taking only a portion of the regular course of any year or years, pay \$10 per hour of instruction per week. The rate applies to lectures, laboratory and drafting-room work. Students required to repeat the work of any year are charged the regular annual undergraduate fee.
- 3. Graduates of the Faculty taking an additional undergraduate course and not proceeding to another degree pay one half the regular undergraduate fee.
 - 4. Partial Students.

Per hour of instruction per week for a full course...... \$10.00

5. Summer Schools. Students attending the Summer Schools in May or September pay \$35 each before entering these schools; \$25 of this amount is credited to the student's account for the following session, and the balance of \$10 is caution money which will be returned at the close of the School.

Other University Fees

6 Late registration after Contember 20th	er 00
6. Late registration, after September 28th	\$5.00
Late registration, after October 5th	10.00
Supplemental Examinations, each paper	10.00
Receipts for supplementals must be shown to the	
Dean's Office before the examination.	
Duplicate Graduation Diploma	10.00
Conferring degree in absentia	10.00
Certified copy of student's record	1.00
Additional copies (at the same time)	.50
Fine for late medical examination (see page 95)\$5.00 or	10.00

7. Caution Money. Every student is required to make a deposit of \$10 as Caution Money to cover damage done to furniture, apparatus, books, etc. This amount, less deductions, is returned at the close of the session.

Students' Activities

- 8. A sessional fee of \$17 is payable by all undergraduates for the support of student organizations, for the rinks and tennis courts, and for admission to all home games under the control of the Athletic Board.
- 9. Partial students pay \$3 for athletics and athletic grounds and \$1 for the Undergraduate Society. If they desire such of the privileges of Section 8 as are open to them, an additional \$8.50 is charged.

General Regulations

10. Fees are due and payable at the Bursar's Office between the hours of 9 a.m. and 1 p.m. and 2.30 to 4 p.m. on the following dates:—

Tuesday, October 1st. Wednesday, October 2nd.

or if desired fees may be remitted by mail before the above dates. The second instalment of tuition fees is due and payable on February 1st. An additional \$2 is charged for payment after the specified dates.

- 11. Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of Regulation 10.
- 12. Any student who fails to pay his fees within a month of the prescribed date is suspended until all the fees due have been paid.
 - 13. All fees are payable in Canadian currency.

ESTIMATED EXPENSES

See page 100.

COLLEGES AFFILIATED WITH THE FACULTY OF ENGINEERING

The conditions on which students may enter from certain colleges and universities are stated below. Such students, and others seeking similar advanced standing, should make application to the Dean of the Faculty, preferably not later than the end of July. All such students are subject to the regulations of the Faculty regarding experience in practical work (see page 224). Due allowance is made for courses in shopwork forming part of the curricula in the colleges in which they have previously studied.

Acadia, Alberta, Mount Allison and St. Francis Xavier Universities are affiliated with McGill University to the extent that students who have completed the two-year course in engineering given by these universities are admitted to the Third Year in any of the engineering courses in the Faculty of Engineering, except that in Chemical Engineering, for which special arrangements are at present necessary.

Students from these universities entering the Third Year must take the summer school suitable to their course in May, or the special school in September, which will open in 1935 on September 3rd in Chemical, Mechanical and Metallurgical Engineering and on September 16th in Civil and Mining Engineering.

Royal Military College.—Graduates of the Royal Military College of Kingston, when specially recommended by the Director of Studies of that institution, are admitted to the Fourth Year in Civil Engineering and to the Third Year in other engineering departments of the Faculty. They must in all cases take the summer schools pertaining to these several courses, which are held in September, as stated in the preceding paragraph.

University of Cambridge.—Arrangements have been made whereby graduates and students of the Mechanical Science course in the University of Cambridge are admitted to advanced standing in the Faculty of Engineering under definite regulations, particulars of which can be obtained from the Dean of the Faculty.

SCHOLARSHIPS AND PRIZES IN ENGINEERING ENTRANCE SCHOLARSHIPS

For a list of scholarships open to students entering the first year of the Faculty of Arts and Science for their pre-Engineering Year, see page 89.

The following scholarships are open to students entering the Faculty:—
A Robert Bruce Bursary of \$100, open to students of promising ability but of straitened circumstances in Arts and Science or in Engineering.

The Hon. Robert Jones Scholarship, valued at \$125 per annum.

(For details, see page 91.)

The Isabella MacRae Scholarship, open to students resident in Maxville, Ont., or failing such for six years, to other Ontario students. (For details, see page 93.)

The P. S. Ross, Ottawa Valley Graduates', and Dr. H. M. Ami Exhibitions, valued at \$100, \$75 and \$50 respectively, given through the

Ottawa Valley Graduates' Society. (For details, see page 89.)

Canadian Pacific Railway Scholarships, covering one year in Arts and Science and four in Engineering, or five years' tuition in Architecture, open to apprentices and other employees of the company and to minor sons of employees. (For details, see page 93.)

Bursaries granted by the Imperial Order of the Daughters of the Empire, of the annual value of \$300 each, are tenable for four years at any university and are open to the sons and daughters of deceased or permanently and seriously disabled soldiers and sailors. At least one is available for each Province each year. Details may be obtained from the Provincial Educational Secretary of the Order in any Canadian Province. In Quebec the address is Room 1111, Mount Royal Hotel, Montreal.

Workman Student—The University accepts one nomination each year for a full course in Mechanical Engineering in the Faculty of Engineering from the executors of the estate of the late Thomas Workman. The student nominated must have satisfied the entrance requirements of the Faculty.

AWARDED ON THE RESULTS OF THE SESSIONAL EXAMINATIONS OR FOR SPECIAL THESES

1. A British Association Exhibition of \$50 and a prize of \$25 at the end of the Third Year, to the students who obtain the highest and the second highest aggregate marks, respectively, in the sessional examinations in Strength of Materials and Mechanics of the Third Year.

2. Three prizes of \$25, \$15 and \$10, at the end of the Second Year, to the students obtaining the highest, and the second and third highest aggregate marks, respectively, in the sessional examinations in Algebra

Calculus and Mechanics of the Second Year.

- 3. A Scott exhibition of \$50, founded by the Caledonian Society of Montreal, in commemoration of the centenary of Sir Walter Scott, and two prizes of \$25 and \$15, to the students obtaining the highest, and the second and third highest aggregate marks, respectively, in the sessional examinations in Mathematics, Descriptive Geometry and Physics of the First Year.
- 4. A prize of \$50, presented by Mr. James L. Tighe, B.A.Sc., for research work in Hydraulics.
- 5. A prize of \$25, presented by Messrs. Anglin-Norcross, Ltd., to the student obtaining the highest marks in Architectural Drawing in the School of Architecture.
- 6. A prize of \$25, presented by Messrs. Anglin-Norcross, Ltd., to the student obtaining the highest marks in Architectural Engineering in the School of Architecture.
- 7. The Louis Robertson Prize, founded by Mr. and Mrs. John A. Robertson, in memory of their son, John Louis Armour Robertson, who was killed in the Great War on July 18th, 1916, to be awarded to the undergraduate student who ranks highest in Design in the Final Year of the School of Architecture.
- 8. A prize of \$25, presented by Professor P. J. Turner, to the student obtaining the highest marks in Building Construction of the Second Year course in Architecture.
- 9. Prizes amounting to \$200, given by the Montreal Light, Heat & Power Consolidated to Fourth Year students in the Department of Electrical Engineering.
 - 10. The following prizes are offered for the best summer essays:—To students in Civil Engineering, a prize of \$25.
- To students in Metallurgical Engineering, a prize of \$25, presented by Milton L. Hersey, Esq., D.Sc.
- To students in Mining Engineering, a prize of \$25, presented by Dr. J. B. Porter.
- 11. The Engineering Institute of Canada offers each year a prize of books or instruments to the value of \$25 for the best paper in any branch of engineering received from an English-speaking Student or Junior of the Institute in the Province of Quebec. This prize is known as the Phelps Johnson Prize; another of the same value, the Ernest Marceau Prize, is awarded for the best paper in French. Similar prizes are open to those located in other provinces. The successful papers become part of the literature of the Institute and place the authors in prominent touch with the engineering profession. Further particulars may be obtained from R. J. Durley, Secretary, 2050 Mansfield Street, Montreal.
- 12. The Engineering Institute of Canada also offers each year a prize of \$25 to the student of the Third Year whose standing, considered in combination with his activities in student engineering organizations, is, in the opinion of the Faculty, most meritorious.

13. Three prizes, one of \$25 and the President's gold medal, and two of \$25 each, are offered annually for the best papers submitted by student

members to the Canadian Institute of Mining and Metallurgy.

14. The sum of \$50 has been voted by the Undergraduate Society of the Faculty of Engineering, to be given as prizes for the best summer essays submitted by students. \$25 is awarded for the best essay, \$15 for the second and \$10 for the third.

15. A Sir William Dawson Exhibition, given by the New York

Graduates' Society; value, \$60.

16. A prize of \$25, offered by the Canadian Section of the Society of Chemical Industry, for the best essay on some phase of chemical industry. Further particulars may be obtained from the Secretary of the Society.

17. A prize of \$10, offered by the Montreal Chapter of the American Society of Metals, to the student graduating in Metallurgical Engineering who obtains the highest mark, provided he obtains honour

standing, in the subjects of Metallography and thesis combined.

18. The Robert Forsyth Prize in Civil Engineering. Under the will of the late Miss Jeanie Forsyth the interest on \$1000 is awarded each year, if the examiners so recommend, to a "worthy and needy" student of the graduating class who secures high standing in the subjects of Theory of

Structures and Strength of Materials.

19. The Donald Forbes Memorial Prize of \$25 is offered by Mr. and Mrs. H. L. Forbes of Ottawa, in memory of their son, Donald, who died in September, 1934. The prize will be awarded on recommendation of a Committee of the Faculty to a student in the Chemical Engineering Class of 1936, after consideration of standing in the Third and Fourth Year subjects of Physical Chemistry, Organic Chemistry and Chemical Engineering, and of general character and personality.

AWARDED AT THE DISCRETION OF THE FACULTY

1. The Hon. Robert Jones Scholarship of \$125 per annum, "is granted from time to time to some poor student for the full term of study in the Faculty of Engineering."

Application should be made through the Dean of the Faculty. In awarding the scholarship the standing of the student in the entrance examination is considered, and the scholarship is not continued if the

standing of the student at any time proves unsatisfactory.

2. The Baylis Scholarship, founded in memory of Mr. and Mrs. James Baylis, of Montreal, and having an annual value of \$90, is awarded to some student entering the Second Year who is in need of financial assistance. The scholarship will be continued during the Third and Fourth Years, if the standing of the student continues to be satisfactory.

Application should be made through the Dean of the Faculty.

3. The late Dr. James Douglas, who was a member of the Board of Governors, provided for twelve or more tutorial bursaries of \$80 per

annum in the Faculty of Engineering. In assigning these, the circumstances of the applicants as well as their academic standing are considered. These bursaries carry the obligation of giving tutorial instruction equivalent to one evening a week. Students in the Third and Fourth Years of Engineering are eligible.

4. H. M. MacKay Memorial Scholarship. This scholarship will probably be awarded during the summer of 1935 to a student of British citizenship who has then completed the First Year in Engineering and intends to enter the Second Year in September, 1935. A committee appointed by the Faculty will select the scholar, having in mind the results of the First Year sessional examinations, general character, industry and other qualities desirable in an engineer. The amount of the scholarship for 1935–36 will be \$150. Payment will be withheld if the scholar's progress is unsatisfactory. If no candidate of sufficient merit applies, the scholarship will not be awarded. Written applications must be made to the Dean's Office on or before May 31st, 1935.

5. The Jenkins Bros., Ltd., Scholarship, supported by Messrs. Jenkins Bros., Ltd., and having an annual value of \$200, is open to all Engineering students entering the Fourth Year and is awarded on the basis of academic standing and personality.

BURSARIES

Ten bursaries of \$100 each, two for each of the five sessions from 1934-35 to 1938-39 have been given to the University by the Montreal Alumni Club of the Sigma Alpha Mu Fraternity. These bursaries are open to men students in any Faculty. Need and scholarship determine the award. Applications in writing should be made to the Registrar before the end of June.

Three bursaries of \$100 each for the 1935-36 session have been given to the University by the Mount Royal Lodge of Bnai Brith. These bursaries are open to men and women students in any Faculty. Need and scholarship will determine the award. Applications in writing must reach the Registrar before the end of June 1935.

The Anglin Bursary, covering one year's fees in the Faculty of Engineering, will be given for the 1935-36 session by Mrs. Anglin in memory of her husband, the late Mr. J. P. Anglin, B.Sc. 1906. Need and scholarship will determine the award of the bursary which is open to students in any year. Applications should be made to the Registrar before the end of October.

SCHOLARSHIPS AND FELLOWSHIPS FOR GRADUATES See page 373

MEDALS AND LOAN FUNDS MEDALS

1. A British Association Medal is open for competition to students of the graduating class in each of the Engineering courses, and, if the examiners so recommend, will be awarded to the student taking the highest position in the final examinations. The British Association Medals

were founded by the British Association for the Advancement of Science in commemoration of its meeting held in Montreal in 1884.

A gold medal and two prizes are offered by the Canadian Institute of Mining and Metallurgy. For further particulars, see page 219.

3. The Lieutenant-Governor's Silver Medal is awarded to the student ranking highest in the Graduating Class in Architecture, provided his work is considered of sufficient merit.

 The Lieutenant-Governor's Bronze Medal is awarded to the student obtaining the second place in the Graduating Class in Architecture,

provided his work is considered of sufficient merit.

5. The Royal Architectural Institute of Canada offers a medal annually to the student who has completed the entire course at a recognized School of Architecture, who has obtained high marks throughout his course, and who gives promise of being an architect of distinction after graduation. British subjects only are eligible for this award.

LOAN FUNDS

1. The "Class of 1899 Fund" was established by the "Applied Science" Class of 1899, to aid each year one or more students who, upon the completion of their Second Year, require assistance to enable them to finish their course. Loans from this fund are repayable after graduation. Applications should be made to the Dean.

2. The George Henry Frost Fund was founded by the late G. H. Frost, B.Sc. '60, to aid students who, when commencing the work of the second or a subsequent year in the Faculty of Engineering, require financial assistance. Loans from this fund bear interest at 3% and are repayable within three years after graduation. In making loans from this fund the academic standing of the applicants is considered. Applications should be made to the Dean.

3. The Waddell Fund was founded by J. B. Waddell, Esq. Loans are made under the same conditions as apply to the George Henry Frost Fund, except that the benefits are available to graduate students as well

as to undergraduates. Applications should be made to the Dean.

4. The Canadian Institute of Mining and Metallurgy Loan Fund was founded by the Montreal Women's Auxiliary of that organization for the assistance of Engineering students in Mining, Metallurgy, Geology and allied subjects. Applications should be made to the Dean.

A Student Loan Fund has been established by the University to assist needy students in the upper years of all Faculties. Loans are made

only to students with good academic standing.

For further particulars students should consult the Dean of the Faculty.

ADVANCED STANDING FOR GRADUATES IN ARTS AND SCIENCE

Graduates in Arts and Science desiring to proceed to the degree of B.Arch. or B.Eng., should apply to the Dean, Faculty of Engineering, for information regarding the regulations governing such procedure.

DEGREES, EXAMINATIONS AND SOCIETIES DEGREES

Degrees conferred by the University upon such undergraduates of the Faculty as fulfil the conditions and pass the examinations hereinafter stated are:—"Bachelor of Architecture" (B.Arch.), and "Bachelor of Engineering" (B.Eng.), mention being made in the diplomas of the latter of the particular course of study pursued.

Students who take the Bachelor of Engineering degree in one course may graduate in another course by attending one or more subsequent sessions and passing the prescribed additional examinations.

PRIVILEGES OF THE HOLDERS OF THESE DEGREES

Among the privileges enjoyed by graduates in Engineering the following may be specially mentioned:—

- (1) By a resolution of the Institution of Civil Engineers of Great Britain, the holders of the degree of B. Eng. who are desirous of becoming Associate Members of the Institution, may be exempted from Parts A and B of the examinations prescribed for admission to the Institution.
- (2) By the Dominion Lands Surveys Act, any graduate in civil or mining engineering may have his term of apprenticeship for the Dominion Land Surveyors' certificate shortened from three years to one.
- (3) Holders of the degree of B.Eng. are admitted to practice in Quebec, upon graduation, provided they register with the Corporation of Professional Engineers of Quebec upon entering the Faculty. Students entering the Faculty should therefore obtain the necessary application forms from the Dean's office, complete them and return them to that office.
- (4) The School of Architecture is recognized by the Royal Institute of British Architects, and the instruction given meets the requirements of the Board of Architectural Education of that body. Students who obtain the degree of B.Arch. are exempted from the final examination for the associateship of the Royal Institute excepting in the subject of Professional Practice, in which they are required to take a paper set by the Institute's examiners. On passing this they are eligible for candidature as Associate R.I.B.A.
- (5) The Province of Quebec Association of Architects admits holders of the degree of B.Arch. to membership, and thereby to practice in the Province, on passing an examination in design after spending one year in the office of a member of the Association. This office experience may be gained by work during the summer vacations.

EXAMINATIONS

1. Final examinations are held in all lecture subjects. Class examinations, for which credit may be given in the sessional standing, are held at the option of the professor.

- 2. Students who have failed in one or more subjects of the curriculum, except in cases where they are called upon to repeat their year, are required to make good their standing by passing:—
 - (a) the regular supplemental examinations held immediately before the opening of the session, or
 - (b) the final examinations in a subsequent session, or
 - (c) special examinations, which are given only under exceptional circumstances and by authority of the Faculty.
- 3. The pass standard in examinations in subjects in which the candidate has already failed twice is sixty per cent, and an unexcused absence from a sessional examination is regarded as a failure in this connection.
- 4. Failures in drafting and laboratory subjects may under certain conditions be made good by attending special classes during the late afternoons of the first two months of the following session. No student is permitted to attend these schools unless he has made at least 30% in the subject of the school. These classes must be completed and the results reported to the Faculty on or before December 1st.
- 5. No undergraduate is allowed to take instruction in any subject until he has passed the examinations in the necessary prerequisite subjects.

CLASSIFICATION OF MARKS

Class	I	 	*										ì.		.80-1	00%
Class	II				0										. 65-	79%
Class	III.		0		0										.50-	64%

ENGINEERING SOCIETIES

- 1. Upon entrance into the Faculty, all undergraduate students automatically become members of the Engineering Undergraduate Society.
- 2. The students also support an honourary fraternity, the members of which are selected from graduates and undergraduates in Engineering, and the object of which is to encourage high standards of character and scholarship.
- 3. Students in all departments of engineering are strongly recommended to become student members of the Engineering Institute of Canada, for which a fee of \$3 is required. They are then entitled to the Journal of the Institute, to the use of the Institute's building, 2050 Mansfield Street, and to attend the weekly meetings.

Students are invited to compete for the prizes which are offered by the Institute.

4. Students in Mining and Metallurgy are strongly recommended to become members of the McGill Mining and Metallurgical Society, which, although a student body, is affiliated with the Canadian Institute of Mining and Metallurgy, the headquarters of which are in Montreal. Members of this Society receive the Monthly Bulletin of the Transactions of the Institute free and are entitled to attend meetings and to compete for prizes offered.

COURSES OF INSTRUCTION

Instruction in this Faculty is designed to afford thorough training of a practical as well as theoretical nature, in the following branches:—

I—ARCHITECTURE

II—CHEMICAL ENGINEERING

III-CIVIL ENGINEERING

IV—ELECTRICAL ENGINEERING

V-MECHANICAL ENGINEERING

VI-METALLURGICAL ENGINEERING

VII-MINING ENGINEERING

A note concerning graduate courses follows the list of undergraduate courses in each department. A course is also offered in Engineering Physics, see page 112.

CURRICULUM

The curriculum as laid down in the following pages may be changed from time to time, as deemed advisable by the Faculty, and is in no case binding beyond the session covered by this calendar announcement.

Four years of study are required for a degree in any branch of Engineering, and five years for the degree in Architecture.

The degree in Engineering will not be conferred upon any candidate until he has passed the prescribed examinations of his course, and has submitted satisfactory evidence to the Faculty of having had six to nine months of experience in practical engineering work. Similar regulations apply to the degree in Architecture. The conditions regarding practical work in the School of Architecture are set forth under the heading of Summer Work, Courses 35, 36, 37, 38, on page 250. Forms, obtainable from the Dean's Office, must be signed by the employer and returned on or before 5 p.m. October 11th, 1935. In view of the present industrial situation, modification of these regulations may be made in the cases of students otherwise qualified for degrees.

The work prescribed for the first two years is the same in all Engineering courses, except in Chemical Engineering.

The first two years of the Engineering courses (II to VII) are devoted to mathematics, mechanics, physics, chemistry and drawing, as it is necessary that students in these courses should master the general principles underlying scientific work before commencing professional subjects.

In certain courses, students are required to attend Summer Schools following the completion of the work of the session in the First, Second, and Third Years; for details, see page 242.

The regular work of the session 1935-36 will begin on September 30th, 1935, and end on May 28th, 1936.

1. ARCHITECTURE

The course for the degree of Bachelor of Architecture extends over five years.

FIRST YEAR

Subject			Drafting Room and other hour per week		
Number	First term	Second term	First term	Second term	
Arts I	3	3			
194	2	2			
A-ii T					
	2	-	3	3	
4	1	1			
5	1	1	14	ii	
18	2	2	5	5	
27			6	6	
347					
	Arts I Ar	Subject Per	Number First term Second term Arts I 3 3 3 3 194 2 2 2 2 4 1 1 5 1 1 1 8 188 2 2 2 2 2 2 2 3 3 3	Subject Number	

^{*}This subject is counted as part of the Second Year Curriculum, but the work is done in the four weeks immediately following the close of the First Year examinations. (See pages 242 and 273.)

Any undergraduate of the First Year in Architecture who at the close of the first term has failed to obtain an average of 33 per cent in mechanics, geometry and trigonometry, physics, freehand drawing and architectural drawing, may be required to withdraw from the Faculty.

Any other student of the First or any subsequent year, whose record is found to be unsatisfactory, may at any time be required to withdraw from the Faculty.

All students of the First Year in the School of Architecture whose studies have not been seriously interrupted by personal illness, domestic affliction or urgent affairs, and who fail in more than three subjects of the First Year, in which standing is determined by sessional examinations, or in three such subjects aggregating over 300 possible marks, are required to repeat the work of the First Year, and while so doing are debarred from taking any more advanced work.

SECOND YEAR

SUBJECT	Subject Number		re hours week	Drafting Room and other hours per week		
SOBJECT	Number	First term	Second term	First term	Second term	
Architectural Drawing II Building Construction II Architectural Engineering I Surveying.	9 19 21 346 348	2 2 2 2	2 2 2	8 6 5	8 6 5	
Freehand Drawing II History of Classic Architecture Physical Education	28	2	2	6	6	
Summer Work* *Surveying Field Work Architectural Essay	35 347 31					
Total hours		8	8	28	28	

*Surveying Field Work is done in the four weeks immediately following the close of the First Year examinations in April. In the case of students entering from other Universities, this work should be done before entering the Second Year in Summer Schools, as shown on page 242.

All students of the Second Year in the School of Architecture who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in subjects aggregating 350 possible marks or over are required to repeat the Second Year.

THIRD YEAR

SUBJECT	Subject Number		re hours week	Drafting Room and other hour per week		
- Seziger	ramber	First term	Second term	First term	Second term	
Design A. Theory of Planning* Architectural Engineering II. History of Architecture. (Mediæval or Renaissance)† Ornament and Decoration** Building Materials.	1 7 22 15 or 16 10 & 11 or 12 & 13 20	2 2 2 2 1	2 2 1	15 · 4 · · · 3	15 .4 	
Freehand Drawing III. Historical Drawing. Architectural Essay. Summer Work and School.	29 26 32 36		Sand Carlo	6 4	6 4	
Total hours	Tanas in	7	6	32	32	

*The courses in Theory of Design and Theory of Planning, numbers 6 and 7, will be

*The courses in Theory of Design and Theory of Planning, numbers 6 and 1, while given in alternate years.

†The courses in Mediæval and Renaissance Architectural History, numbers 15 and 16, are given in alternate years. During the Session 1935–36, the History of Renaissance **Ornament and Decoration, courses numbers 10 and 11, and 12 and 13, are given in alternate years. During the Session 1935–36, numbers 10 and 11 will be given.

Note.—In the School of Architecture after two failures in any subject a third examination will be granted only after the student concerned has taken special tuition of a character approved by the Department.

For summer reading, see page 244

FOURTH YEAR

SUBJECT	Subject Number		re hours week	*Drafting Room and other hours per week		
SOBJECT	Number	First term	Second term	First	Second term	
Design B	2			22	22	
Ornament and Decoration**.	10 & 11 or 12 & 13	1	i	3	3	
History of Architecture (Mediæval or Renaissance)†	15 or 16	2	2			
Hygiene of Buildings	23	2				
Heating and Ventilation	24		1		1	
Historical Drawing	26			4	4	
Architectural Essay	33					
Summer Work and School	37		00011010	11 11		
Total hours		7	4	29	30	

FIFTH YEAR

SUBJECT	Subject		re hours week	Drafting Room and other hours per week		
SOBJECT	Number	First term	Second term	First term	Second term	
Design C Professional Practice History of Modern Architec-	3 25	i	i	21 3	33	
ture	17 30 34 26 38	2	2	· 8		
Total hours	38	3	3	36	36	

*The courses in Theory of Design and Theory of Planning, numbers 6 and 7 will be given in alternate years. During the Session 1935-36, 6 will be given.

†The courses in Mediæval and Renaissance Architectural History, numbers 15 and 16, are given in alternate years. During the Session 1935–36, the History of Renaissance Architecture will be given.

*Ornament and Decoration, courses numbers 10 and 11, and 12 and 13, are given in alternate years. During the Session 1935-36, numbers 10 and 11 will be given.

Note.—In the School of Architecture after two failures in any subject a third examination will be granted only after the student concerned has taken special tuition of a character approved by the Department.

For summer reading, see page 244.

ENGINEERING COURSES

The subjects of instruction in the First Year of the Engineering Courses (II to VII), and the number of hours per week devoted to each, are as follows:—

FIRST YEAR

SUBJECT	No.		week	Laboratory, e.c., hours per week		
SUBJECT		First term	Second term	First term	Second term	
Elementary Physical Chemistry and Laboratory	51A	2	2	1	25.000.00	
Descriptive Geometry Drawing—Freehand and	341	2	ī	2	2	
Lettering	${342 \atop 343}$	1	1	2	2	
Drawing—Mechanical Engineering Problems	340 80		1	3 3	3 3	
History of Science	135 191 192	1 2 3	1		-	
Spherical Trigonometry Mechanics	193 194	2	3 2 2 2 2	13.00	11	
Analytical Geometry Physics and Laboratory	195	2				
Physical Education	(312)	2	2	2	2	
Surveying Field Work	347 132			and the		
Total hours		16	16	13	13	

*This subject is counted as part of the Second Year Curriculum, but the work is done in the four weeks immediately following the close of the First Year examinations. (See pages 242 and 273.) Students in Chemical Engineering take a Summer School in Qualitative Analysis in September preceding their Second Year instead of this course.

Any undergraduate student of the First Year, who at the close of the first term has failed to obtain an average of 33 per cent in chemistry, mechanics, plane trigonometry, analytic geometry, algebra, physics and descriptive geometry, may be required to withdraw from the Faculty.

Any other student of the First, or any subsequent Year, whose record is found to be unsatisfactory, may at any time be required to withdraw from the Faculty.

All students of the First Year taking the course for the first time, who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than four subjects of the First Year, in which standing is determined by sessional examinations, or in four such subjects aggregating 350 possible marks or over, are required to repeat the work of the First Year, and while so doing are debarred from taking any more advanced work.

The subjects of instruction in the Second Year of the Engineering Courses (III to VII), except in Chemical Engineering, and the number of hours per week devoted to each are as follows:—

SECOND YEAR

SUBJECT	Subject Number		re hours week	Laboratory, etc., hours per week		
SUBJECT	Number	First term	Second term	First term	Second	
Engineering Problems	80A		2			
Economics	171		2		2	
Descriptive Geometry	345	1	1133	2	2	
Engineering Reports	136	1	1	3	3	
Mapping	348 81	.;	1	3	3	
	197	1 2	to Imp	DIESEL OF	3 3 0 438	
Algebra	198	9	i		territor est	
Mechanical Drawing	344	-		3	3	
Mechanics	83	2	2	3 2	3 2 3 2	
Mechanics of Machines	218	PRINT	ī		3	
Physics and Laboratory	315-316	2	2	2	2	
Physical Education		Toront.	and well in	e 3		
Surveying	346	2	2			
Surveying Field Work*	347					
Summer Essay or Reading	133	or boods	e ant	alaston.	2000	
Total hours		14	18	12	15	

*Surveying Field Work is done in the four weeks immediately following the close of the First Year examinations in April (about April 30th) (see pages 242 and 273). In the case of sudents entering from other Universities this work should be done in a special Summer School before entering the Second Year (see page 242).

All students of the Second Year taking the course for the first time, who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than four suljects of the Second Year, in which standing is determined by sessional examinations, or in such subjects aggregating over 400 possible marks, are required to repeat the Second Year.

II. CHEMICAL ENGINEERING

The aim of this Course is to provide a broad fundamental training, which, when supplemented by practical experience, will make the engineer competent to design and operate industrial plants with which he is concerned, and to understand the processes.

Part of the time in the Second Year is devoted to Chemistry, in addition to general Engineering subjects. In the Third Year, time is divided between Chemistry and Engineering, and Chemical Engineering topics are introduced. The Fourth Year is devoted mostly to Chemistry and Chemical Engineering, including a course in unit operations. Facilities are provided for original investigation of industrial problems by the student.

Students must attend two Summer Schools, one in Qualitative Analysis at the beginning of the Second Year, and the other in Quantitative Analysis at the beginning of the Third Year. Students are also required to work in some approved industrial plant during the vacation between the Third and Fourth Years.

FIRST YEAR

As in other Engineering Departments, except that students do not take the Summer School in Surveying Field Work, but attend a school in Qualitative Analysis. This school will be held in September prior to the opening of the Second Year Course.

	SECOND	YEAR				
SUBJECT	Subject Number		e hours week	Laboratory, etc., hours per week		
	Trainber .	First term	Second term	First	Second term	
Engineering Problems Economics Engineering Reports Algebra Calculus Materials of Engineering Mechanics Physics and Laboratory Physics and Laboratory Elem. Organic Chem. and	80A 171 136 197 198 83 315–316	 1 3 2 1 2 2	2 1 1 2 1 2 2	· · · · · · · · · · · · · · · · · · ·	2 2 2	
Laboratory Inorganic Quantitative Analysis and Laboratory *Inorganic Qualitative Analysis and Laboratory. Summer Essay or Reading	56-57 61 54-55 133	3 1 	3 1	3 9	3 9	
Total hours		15	16	16	18	

*Summer School commences September 3rd and extends over a period of four weeks prior to the opening of second year course.

All students of the Second Year who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than four subjects of the Second Year, in which standing is determined by sessional examinations, or in such subjects aggregating over 400 possible marks, are required to repeat the Second Year.

THIRD YEAR

SUBJECT	Subject	Lecture hours per week		Laboratory, etc., hours per week	
portunity of applying the	Number	First term	Second term	First term	Second term
Economics	171 262 226, 228	1 2	2 1 2	3	3
(optional)	137 142 143a	1 2	1 2	3	Legish Bulgak
Lab	87-88 90 58	2	2 1 2	ecosomi ical; exp	3 3
Lab	65 66 63 64	3 3 2 1	3 2 1	12	9
*Advanced Quantitative Anal. and Lab Summer Essay or Reading	67 133	Sergio D	elegesis	n3;pdi	o nii sh
Total hours	- Sur salar	16 or 17	18 or 19	18	18

^{*}Summer School commences September 3rd, and extends over a period of four weeks prior to the opening of the third year course.

FOURTH YEAR

ava va a	Subject	Lecture hours per week		Laboratory etc., hours per week	
SUBJECT	Number	First term	Second term	First term	Second
Advanced Inorganic Chem	72	2	2		
Electrochemistry	70	1	1		
Colloid Chemistry Engineering Relations	75	2			
(optional) Elem. of Electrical Eng. &	138	1	1		
Lab	111-112	2	2	3	3
Engineering Economics	172	2			
Engineering Law	175	1	1		
(optional)	74	1	1		
norganic Chem. Technology	68	2			
Organic Chemical Technology	69		2		
Physical Chemistry Lab	66A		5	9	9
Chemical Engineering	77	5	5		
Chem. Eng. Lab. & Thesis	78			7	7
Summer Essay	134	1			
Total hours		18 to 20	13 to 15	19	19

III. CIVIL ENGINEERING

The courses of study are designed to emphasize the fundamental principles of mechanics, strength of materials, design of structures, and hydraulics, at the same time affording an opportunity of applying these principles to practical problems ranging widely over the field of civil engineering. A sound foundation is laid for future specialization. The outlook of the student is broadened by courses in Mechanical and in Electrical Engineering. In the Fourth Year an alternative course in Municipal Engineering is provided. In the designing courses special attention is given to the interpretation and critical discussion of specifications and to the economic principles involved. Students are recommended to obtain practical experience during the summer vacations, and are especially recommended to spend at least one vacation in a drafting office.

FIRST AND SECOND YEARS

As in other Engineering Courses (see pages 228 and 229), with additional Summer School for students entering Third Year (see page 242).

THIRD YEAR

SUBJECT	Subject	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second
Economics	171 89 141	· i 2	2 1 2	· · · · · · · · · · · · · · · · · · ·	3 2
Engineering Reports (optional) Highway Engineering Hydraulics and Lab *Map Projections (alt.) Mech, Eng, and Lab	137 85 97-98 351 226, 228	1 · · · · · · · · · · · · · · · · · · ·	1 2 	3 3 3	6
Mechanics	86 92-93 82 87-88 90	2 2 1 2	· · · · · · · · · · · · · · · · · · ·	6 3	3
Elem. Structural Design Surveying Surveying Field Work Summer Reading or Essay	353 354 133	2	2	V.	
Total hours		15 to 17	14 or 15	17	20

^{*}Map Projections (351) is alternative with Sanitary Science (82).

FOURTH YEAR

er plants.	Subject	Lecture hours per week		Laboratory, etc., hours per week	
SUBJECT	Number	First term	Second term	First term	Second term
Elements of Elec.Eng. & Lab. Engineering Economics Engineering Law	111-112 172 175	2 2 1	2	3	3
Engineering Relations (optional) Geodesy and Lab Geodetic Field Work Theory of Structures	138 359, 360 361 95 94	1 2 · · · · · · · · · · · · · · · · · · ·	1 1 2	3	3 6
and either Bridge Design Hydraulic Machines Municipal Engineering	96 99 101	2	2 2 2	6	6
Bridge Design	96a 104 103 102 134	2 1 1 	3	6	6
Total hours		14 or 15	11 to 13	15	21

†See page 242.

IV. ELECTRICAL ENGINEERING

The Third Year of the Electrical Engineering course provides the student with a broad engineering training. Courses in mechanical engineering, thermodynamics, and strength of materials occupy a large place in the curriculum, although the greatest emphasis is placed on the study of the principles of Electrical Engineering.

The course in Electrical Engineering theory includes a study of electro-magnetism and of the electric circuit, followed by an analysis of the theory and characteristics of direct current machinery. A study is made of alternating current flow in single phase and polyphase circuits. This training is applied in the laboratory and in the solution of problems. Courses in differential equations and in molecular physics prepare the student for the electrical circuit theory and electrical communication courses of the Fourth Year.

The Fourth Year is devoted almost entirely to electrical engineering studies.

Technical courses cover the generation, transmission and distribution of electric power; direct and alternating current phenomena; electrical machinery; electric lighting; various systems of power distribution and transmission; central station design; electrical traction systems; hydroelectric power development; electro-chemistry; electrical measurements; communication engineering, etc.

Visits are made to electrical works and power plants.

FIRST AND SECOND YEARS

As in other Engineering Courses. (See pages 228 and 229.)

h

THIRD YEAR

SUBJECT	Subject Number		Lecture hours per week		Laboratory, etc., hours per week	
ferniosi si estuanciosi fil restar si estuancio de	Number	First term	Second term	First term	Second term	
Differential Equations. Economics. Electrical Engineering. Electrical Eng. Lab. Engineering Reports (optional). Machine Design. Mech. Eng. and Lab. Mechanics. Thermodynamics. Strength of Mats. and Lab. Physics.	201 171 113 114 137 225 223, 226 86 229 87, 88 318	3 4 1 2 2 2 2 2 2		12	12	
Summer Reading or Essay Total hours	133	17 or 18	16 or 17	18	18	

FOURTH YEAR

SUBJECT	Subject Number		Lecture hours per week		ratory, hours week
		First term	Second term	First term	Second
Electrical Design & Problems Electrical Engineering Electrical Measurements	122 117	1 4	1 4	3	6
and Lab Electrical Engineering Lab.	124 118	2	basi jen	3	3 9
Thermionic Tube Theory and Applications	125 126	2	2	3	::
Engineering Relations (optional) Applications of Electricity Elec. Light & Power Dis	138 123 120	1	1 3		
Hydraulics & Lab Economics Engineering Law	97, 98 172 175	2 2 2 1	i	3	0 41 8
Summer Essay	134			**	
(1) Electric Traction (2) Hydraulic Machines	121 99		2 2 2	:: ;	::
(3) Machine Design (4) Applied Electro	243 70A	2		***	
Chemistry	127		2		
Total hours		16 to 19	11 to 14	18	18

V. MECHANICAL ENGINEERING

Undergraduates entering the Third Year elect one of two courses: Mechanics of Machines and Thermodynamics, or Accounting and Industrial Engineering. If special preparation in aeronautics is desired in addition to the first option (Mech. of Machines), Calculus is taken in the Third Year and Strength of Materials in the Fourth Year, if the timetable will permit.

The subjects of instruction in this Department are of interest to students who are likely to take up work connected with:—

(a) The engineering of production, including industrial engineering; (b) steam engineering; (c) internal combustion engines; (d) power plant engineering; (e) heating and ventilation; (f) æronautics and ærodynamics.

Instruction is given during the Third and Fourth Years in mechanical engineering applied to power installation and prime movers. This work is supplementary to thermodynamics, mechanics of machines and machine design, and leads to power plant design, industrial plant design and works organization.

Students take work in electrical engineering during the Third Year.

Workshop practice instruction is given in the Third and Fourth Years to prepare for that practical experience which every mechanical engineer must obtain for himself.

The course in thermodynamics deals with the theory of heat engines, including graphical and experimental work.

Arrangements are made for occasional visits to power plants and factories of importance.

FIRST AND SECOND YEARS

As in other Engineering Courses (see pages 228 and 229), with additional Summer School for students entering Third Year. (See page 242.)

TIL	TOT	WITAI

		Lecture per v	e hours week	Laborato	
SUBJECT	Subject Number	First term	Second term	First term	Second term
Economics Elements of Elect. Eng. and	171		2	307.81	
Lab Engineering Reports	111-112	2	2	3	3
(optional)	137	1	1		
Industrial Engineering	237	2	-	Mi existing	
Machine Design	225	2	2	3	
Mechanical Drawing	231		.:	3	3
Mechanical Eng. and Lab	227, 228	3	3	3	0
Mechanics	86	2			
Physical Metallurgy	266	1	CALLS IN	2 3	3
Shopwork	236	2	9	3	3
Strength of Matls. and Lab.	87, 88 90	4	1		3
Elem. Structural Design	229	2	2	5	The same of the
Thermodynamics	233	DESCRIPTION OF	His Tales	A	
Summer Reading or Essay	133	en a Semil	militare !	DISTRICTOR	1 0.
Accounting	238	i	1	2	2
Mechanics of Machines	224	2	2	1	1
*Differential Equations (Optional)	201	2	100	Vint as	10.00
Total hours	and the same	16 to 21	15 to 17	15 or 16	19 or 2

FOURTH YEAR

SUBJECT	Subject	Lecture hours per week		Laboratory, etc., hours per week	
SUBJECT	Number	First term	Second term	First term	Second term
Designing	241 172 175	2 1	i	3	3
Engineering Relations (optional)	138 257 247 97, 98	1 1 1 2	1 1 1		de discourse
Hydraulic Mach	99 242 244 252	2 1	2 2 1	3 3	3 3
Summer Essay	134 254 253 258 249a	··· 2 2 2	1 2 ···	3	3 3
Or Thermodynamics Industrial Administration Industrial Relations Mech. Eng. Lab	251 254 258 249	2	2 1 .:	9	3
Mech. Eng. Lab	249 240 251	2 2	.2 2	9	9 1
**Strength of Materials (optional)	95A	2	101.19		11.
Total hours		16 or 17	11 to 13	21 or 22	19 or 2

^{*}Prerequisite Mechanics of Machines 224.

**Students intending to specialize later in areodynamics take optional courses in Calculus (201) and Strength of Materials (95A).

VI. METALLURGICAL ENGINEERING

The course of instruction provides training in the chemical and engineering subjects that form a basis for metallurgical engineering. In the later years, the various branches of theoretical and practical metallurgy are studied, together with the allied subjects of geology, mineralogy, assaying, ore-dressing and mining engineering.

The course is designed for students who expect to be connected with the smelting or refining of metals, the production of iron or steel, or the melting and casting of metals and alloys, or who will be engaged in engineering work in which the physical properties and heat-treatment of metals and alloys are of fundamental importance.

Between the Second and Third Years there is a four weeks' Summer School in inorganic qualitative analysis, beginning about September 5th. (See page 242.)

In the Third Year instruction is given in economics, chemistry, physical chemistry, assaying, geology, mineralogy, mining, ore-dressing, metallurgy, and mechanical and structural engineering.

A Metallurgical Field School is held after the April examinations of the Third Year. This school visits metallurgical plants and studies the design and operation of each.

Students are expected to work in a metallurgical plant during the summer before entering the Fourth Year, and must have had experience in metallurgical works before graduation. (See page 224.)

In the Fourth Year instruction is given in chemistry, electro-chemistry, electrical engineering, engineering law, economics, hydraulics, metallurgy, electro-metallurgy, metallography, metallurgical designing and oredressing.

Laboratory accommodation is provided for graduate students who wish to do advanced work in metallurgy for the M.Sc. or M.Eng. degree, and a Research Scholarship is usually available for a graduate student who shows marked ability.

FIRST AND SECOND YEARS

As in other Engineering Courses (see pages 228 and 229).

THIRD YEAR

pplied mechanics, electr	Subject	Lecture hours per week		Laboratory, etc., hours per week	
SUBJECT	Number	First term	Second term	First term	Second
Economics	171- 137- 263, 264- 141- 261- 62- 226, 228- 265- 142- 143- 291- 292, 295- 87, 88- 90- 54, 55- 133-	1 2 1 2 2 2 2 2 2	2 1 2 1	9 3	 5 2 3 3
Total hours		15 or 16	16 or 17	20	19

^{*}See page 242.

FOURTH YEAR

SUBJECT	Subject	Lecture hours per week		Laboratory, etc., hours per week	
SUBJECT	Number	First term	Second term	First term	Second
Electro-Chemistry Elem. Elec. Eng. and Lab. Electro-Metal. and Lab. Engineering Economics Engineering Law. Engineering Law. Goptional) General Metallurgy Hydraulics and Lab. Inorganic Chem. Technology Inorg Quant. Anal. and Lab. Metallurgy. Advanced. Metallurgy Colloquium Metall. Calcs. and Design. Metallurgical Analysis. Metallography and Lab. Ore-Dressing and Lab. Metallurgical Field School. Summer Essay.	70 111, 112 275 172 175 138 271 100 68 67A 272 274 277 278 279 280, 281 300, 305 267 134	1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1	1 2 2 2 1 1 1 2 2 2 2 1 1 1 1 1 1 1 1	3 	3 3 3
Total hours		17 or 18	13 or 14	191/2	23

^{*}Metallurgical Field School (267) is taken at the end of the Third Year. See page 267. For Summer Schools, see page 242.

VII. MINING ENGINEERING

The Third Year is devoted largely to applied mechanics, electrical engineering, mechanical engineering, and surveying, but courses of special interest to Mining Engineers are introduced in ore-dressing, elementary mining and metallurgy, geology and mineralogy.

The Fourth Year is given up mainly to technical work in mining, ore-dressing, economic geology and metallurgy, and includes nearly three full days per week in laboratories and drafting room. In the second term each student prepares a thesis on an experimental investigation, and works on problems in mine design.

A Field School in mining, ore-dressing and geology is held between the Third and Fourth Years, beginning immediately after the close of the April examinations. Students are taken on a trip to some important mining district where mines and plants are studied. As far as conditions permit, Second Year students who intend to enter the mining course are given the benefit of this summer school.

Facilities are available for graduate students who wish to do advanced work in mining or ore-dressing, and the Department possesses three Research Fellowships open to graduates who show ability. (See page 373.)

FIRST AND SECOND YEARS

As in other Engineering Courses (see pages 228 and 229), with additional Summer School for students entering Third Year. (See page 242.)

THIRD YEAR

comes esponis as special	Subject	Lecture hours per week		Laboratory, etc., hours per week	
SUBJECT	Number	First term	Second term	First term	Second
Economics Engineering Reports	171	2			2
(optional) Fire Assaying and Lab	137 263, 264		1		5 2
Geology, General* Inorg. Qual. Anal. and Lab. Mech. Eng. and Lab	141 59, 60 226, 228	1 2	2 1	3 5 2	3
Gen. Element. Metall Mineralogy Mineralogy, Determinative	262 142 143	1 2	1 2	6	27:
Mining Engineering	291 292, 295	2 2	2		
Strength of Matls, and Lab. Elem. Structural Design	87, 88 90 352	2	2 1		3 3
Surveying Surveying Field Work Elect. Engineering and Lab	354 111, 112	2		3	3
Summer Reading or Essay	133			november	
Total hours		19 or 20	16 or 17	19	19

^{*}The lecture hour assigned to these subjects is taken from the afternoon laboratory periods. †See page 273.

FOURTH YEAR

SUBJECT	Subject Number	Lecture per v		Laboratory, etc., hours per week	
		First	Second term	First term	Second
Mine Design Engineering Economics Engineering Law Engineering Law Engineering Relations (optional) Geology of Canada Hydraulics and Lab Inorg. Quantitative Anal. Metallurgical Calc Mining Engineering Mining Colloquium Practical and Field Geology Ore Deposits Ore-Dressing Ore-Dressing Ore-Dress, Lab and Thesis Petrography and Lab Mining Field School Mine Mapping Summer Essay	298 172 175 138 149 100 71 271, 284 283 297 301 147 148 300 306, 307 146 294 293 134	1 1 1 1 1 1 2 1 3 	1 1 1 2 1 3 1 1 4 1 1 	11/2 9 3 3 3 	6
Total hours	Manhar St.	16 or 17	13 or 14	21	22

^{*}The lecture hour assigned to this subject is taken from one of the afternoon la-

boratory periods.

Note.—Surveying Field Work, between the Second and Third Years. See page 273.

Mining Field School at end of Third Year. See page 270.

SUMMER SCHOOLS

Undergraduates are required to attend Summer Schools as specified below. These are held immediately after the April sessional examinations, and the work is set forth in detail under the subject numbers referred to.

A special fee of \$35.00 is payable in advance. (See note under fees, page 214.)

Except as noted, classes are expected to begin on or about April 29th and close about May 25th.

COURSE	Students entering Second Year		Students entering Third Year		Students entering Fourth Year	
	Subject No.	Page	Subject No.	Page	Subject No.	Page
Architecture	347 *54, 55 347	272 252 272	735, 36, 37, 38 *67 354	250 253 273	†35, 36, 37, 38	250 273
Elect. Engineering. Mechanical Engineering. Metallurgical Engineering. Mining Engineering.	347 347 347 347	272 272 272 272 272	*233 *54, 55 354	264 252 273	361 267 294	267 267 270

†This school will be held in September, 1935, and will last a little over two weeks. Particulars as to dates, etc., must be obtained from the Head of the Department.

*These Schools commence on September 3rd, extend over a period of four weeks. and are held with the Special Summer Schools. See pars. (b) and (c) below.

NOTE—SPECIAL SUMMER SCHOOLS

As it is seldom practicable for students admitted to advanced standing in McGill University from other colleges to attend the May Summer School preceding the work of the year to which they are admitted, the following arrangements have been made for such students, but it must be understood that, except as noted in the table above, they apply only to students who have not previously been in attendance in the Faculty of Engineering.

(a) Students entering the Second Year, except in Chemical Engineering, are required to attend a special Summer School in Surveying which extends from September 16th to 28th, inclusive, preceding the work of the Session. Additional work may be required in the following year, if necessary, to cover the course. Students entering the Second Year in Chemical Engineering take the regular Summer School. (See page 252.)

(b) Students entering the Third Year of the courses in Chemical Engineering and Metallurgical Engineering are required to attend a Special Summer School in Chemistry which extends over a period of four weeks commencing September 3rd.

(c) Students entering the Third Year of the course in Mechanical Engineering will be required to attend a Summer School in Mechanical Drawing and Machine Shop Work extending over a period of four weeks, commencing September 3rd.

(d) Students entering the Third Year in the courses in Civil and in Mining Engineering and the Fourth Year in Civil Engineering are required to attend a Special Summer School in Surveying from September 16th to 28th, inclusive, and in these courses further work in Surveying, to be specified by the Head of the Department, is required for a portion of the month of May following.

(e) Students entering the Third Year in the course in Electrical Engineering are required to submit evidence satisfactory to the Head of the Department, that they have been employed for a time at least equivalent to one month of steady employment, in a first-class electrical shop during the vacation preceding their entrance into the Third Year.

(f) Students entering the Third Year or any subsequent year in the course in Architecture must submit evidence satisfactory to the Head of the Department that they have done work equivalent to that of the regular scheduled Summer Schools.

(g) Students entering the Fourth Year in the courses in Mining and Metallurgical Engineering are required to submit evidence that they have had practical experience in mining and metallurgical work at least equivalent in extent to the work done in the regular Summer Schools in these courses, and should by correspondence in the preceding spring secure the approval of the Head of the Department concerned of the work which they propose to offer in place of the regular summer work.

SUMMER WORK, SUMMER ESSAYS AND SUMMER READING

Students in Engineering are required to submit to the Faculty evidence of having had at least six months of experience in practical engineering work before receiving their degrees. Evidence of such employment must be submitted on forms obtainable at the Dean's Office, to be signed by the employer and handed in at the office not later than 5 p.m. October 11th, 1935.

A similar regulation applies to students in Architecture, who must have had at least eight months of practical experience before receiving their degrees. This experience must include work in an architect's office.

In view of the present industrial situation, modification of these regulations may be made in the cases of students otherwise qualified for degrees.

GENERAL REQUIREMENTS

Essays are regarded as a very important part of the curriculum and a high standard is exacted. They are judged on their subject matter, literary style and the evidence they show of thoughtful preparation.

The most acceptable subject for an essay is a critical description of the work on which the student is engaged during the summer, but a description of any engineering, scientific or industrial work with which he is familiar will be accepted. Students who secure summer engagements in engineering work should take advantage of every opportunity to gather material suitable for an essay.

No essay compiled from books alone will be accepted unless the student has obtained in advance the written approval of the Head of his Department. Information obtained from books and other sources may, however, be used or even quoted verbatim, provided full acknowledgment is made and all quotations enclosed in quotation marks. Similarly, drawings, blue prints, etc., may be included in the essay, provided full acknowledgment is made.

The student should be particularly careful to make acknowledgment of information or drawings regarding matters which have not come within his personal experience, by means of a letter attached to the essay.

Essays should normally be from 2,000 to 5,000 words in length. They should be illustrated by drawings, sketches, and, when desirable, by photographs, specimens, etc., and must be typewritten on paper of substantial quality and $8\frac{1}{2} \times 11$ inches in size.

Essays, with the exception of those which require consideration by the Committee on English because of literary defects, or those which are considered eligible for Undergraduate Society prizes, will be returned to students on or before December 1st. Students are encouraged to submit their essays to the Engineering Institute of Canada or to the Canadian Institute of Mining and Metallurgy, in competition for student's prizes offered by these Institutes.

All summer essays must be handed in at the Dean's Office not later than 5 p.m., October 11th, 1935.

Examinations in Summer Reading will be held on or about the opening day of the session. The number of marks assigned to the reading course and to the essay is the same.

STUDENTS IN ARCHITECTURE

During each summer vacation all students are required either to work for five weeks in the office of an architect or contractor, or prepare thirty-five reasonably large freehand sketches in any desired medium, or carry out a programme of study approved by a professor of the School.

In addition, students entering the various years are required to fulfil the following requirements:—

Second Year

Pass an examination on J. H. Breasted, Ancient Times (Ginn and Co., New York).

Third and Fourth Years

Pass an examination on the following books, or submit an essay on a subject approved by the Head of the Department:—Quennell, A History of Everyday Things in England, Part II (B. T. Batsford); Cellini, Autobiography (Dent).

Fifth Year

Pass an examination on the following books, or submit an essay on a subject approved by the Head of the Department:—

Ruskin, Seven Lamps of Architecture (Dent); A. Clutton Brock, William Morris—His Work and Influence (Williams & Norgate).

STUDENTS IN ENGINEERING

Second Year

132. Students entering the Second Year must either pass an examination on not fewer than four of the following books, or submit an essay:—

Haldane, Possible Worlds, (Phænix Library).

Bennett, Imperial Palace, (Cassell & Co.).

Travels of Marco Polo, (Everyman's Library).

Strachey, Eminent Victorians, (Phoenix Library).

Monckton, Some Experiences of a New Guinea Resident Magistrate. (Weekend Library).

Whitman, Seven Contemporary Plays, (Houghton, Mifflin.)

Lucas, Over Bremerton's (Methuen).

Conrad, Mirror of the Sea, (Heinemann).

The essay, which should be approximately 2,000 words in length, must be illustrated and conform to the requirements for essays stated above.

Students who elect to write an essay, but who are not engaged during the summer in engineering, scientific or industrial work that would be a suitable subject for an essay, may write on one of the following subjects:

(1) General Educational Value of Engineering Training; (2) The Place of Athletics in the University; (3) College Journalism; (4) Summer Schools.

Third Year

133. Students entering the Third Year must pass an examination on the following book, or submit an essay, preferably on engineering work in which they have been engaged:—Cheyney, An Introduction to the Social and Industrial History of England, revised edition, (Macmillan).

Essays must conform to the requirements stated above except that they may be somewhat shorter, but not less than 2,000 words in length.

Students who elect to write an essay, but are not engaged during the summer in suitable engineering, scientific or industrial work are advised themselves to choose a subject, in consultation with the Head of their Department, or they may write on one of the following:—

Chemical Engineering.—(1) The Paint Industry; (2) The Solvay Process for Soda Manufacturing; (3) Manufacture of Illuminating Gas.

Civil Engineering.—(1) Historical Development of Trussed Frameworks; (2) Historical Development of Reinforced Concrete; (3) Ancient and Modern Water Supplies.

Electrical Engineering.—The Application of Electric Power to Industrial Establishments.

Mechanical Engineering.—(1) Powdered Fuel for Power Production: (2) Pulp and Paper Manufacture; (3) Shop Management.

Metallurgical Engineering.—(1) Roasting Ores of Lead; (2) Reverberatory Copper Smelting; (3) Heat Treatment of Steel.

Mining Engineering.—(1) Explosives Used in Mining; (2) Hoisting from Mines; (3) Mucking and Transportation in Mines.

Fourth Year

134. Students entering the Fourth Year are required to submit an essay, preferably on engineering work in which they have been engaged. Students who are not engaged in suitable work may write on one of the following subjects or preferably on an Engineering subject approved by the Chairman of their Department.

Chemical Engineering.—(1) Hardening of Fats; (2) The Rare Earths; (3) Coal Tar Distillation; (4) Electro-chemical Industries.

Civil Engineering.—(1) Welding of Structural Steel; (2) High Early Strength Concrete; (3) Aerial Surveying; (4) Small-Town Sewage Disposal Plants.

Electrical Engineering.—(1) Applications of electricity to any particular branch of industry, or to industry in general; (2) Applications of Thermionic Tubes to Electrical Communication and to Industry; (3) Electrification of Railways; (4) The Insulation of Underground Cables or of Overhead Lines; (5) The Magnetic Properties of Iron and its Alloys.

Mechanical Engineering.—(1) Power Costs; (2) Central Station Heating; (3) Methods of Increasing Production in Manufacturing; (4) Exhaust Steam Turbines Using Steam at Pressures below Atmospheric.

Metallurgical Engineering.—(1) Treatment, Uses and Disposal of Gases from Metallurgical Furnaces; (2) Economic Use of Electric Power in Metallurgical Furnaces; (3) Corrosion-resisting Alloy Steels.

Mining Engineering.—(1) Prospecting and Exploration of Mineral Deposits; (2) Mine Drainage; (3) The Flotation Process for Ore Concentration; (4) Compressed Air and its Application to Mining; (5) Mineral Production and its Effect on Industrial Development.

Essays must conform in all respects to the requirements stated on page 243.

Examinations in Summer Reading will be held on or about the opening day of the session. The number of marks assigned to the reading course and to the essay is the same.

SUBJECTS OF INSTRUCTION

The following courses are subject to modification during the year, as the Faculty may deem advisable.

SCHOOL OF ARCHITECTURE

PROFESSORS:—

RAMSAY TRAQUAIR (in charge of School).
PERCY E. NOBBS (in charge of Design).
E. DYONNET.
P. J. TURNER.

Assistant Professor:—Frank P. Chambers. (On leave of absence)

Demonstrators:—

P. Roy Wilson
A. Prideaux
Hugh A. I. Valentine

A.—Design

The course in Design is divided into three classes (A, B and C), intended for the Third, Fourth and Fifth Years respectively. Advanced or backward students are allotted to design classes to suit their individual requirements, irrespective of their standing in other subjects; good standing in Class C must be obtained prior to receiving the degree.

- 1. Class A. (P. 9, 19, 21, 29). Simple problems in composition of a monumental nature. The design of domestic buildings.
 - 2. CLASS B. (P. 1, 22). The design of public buildings.
- 3. CLASS C. (P. 2). Problems involving the plan, structure and lay-out of complex buildings and groups of buildings. The diploma design for graduation is done in the second term.—Professor Nobbs.

B.—Aesthetic

4. THE ELEMENTS OF ARCHITECTURE.—24 lectures. Professor Chambers.

Text-books:—Vignole, Traité Elémentaire Pratique d'Architecture, (Garnier); H. McGoodwin, Architectural Shades and Shadows, (Bates & Guild).

P—Prerequisite. See page 274.

- 5. History of Art. 24 lectures—.....
- 6. Theory of Design. 24 lectures—Professor Nobbs. (Given in 1935-36).
- 7. Theory of Planning. 24 lectures—Professor Nobbs. (Given in 1935-36).
- 10, 11, 12 and 13. ORNAMENT AND DECORATION.
- (48 lectures and 48 draughting periods extending through two years.)
- 10. Decorative Heraldry.—Professor Traquair. First Term (given in 1935-36).

Text-books:—Eve, Decorative Heraldry, (Harcourt); Grant, The Manual of Heraldry (Grant); Hope, Heraldry for Craftsmen (Macmillan), Fox Davies, The Art of Heraldry, (Jacks).

11. Ornament in Form.—Professor Traquair. Second Term (given in 1935-36).

Text-books:—Millar, Plastering, Plain and Decorative, (Batsford); Bankart, The Art of the Plasterer; (Batsford); Prior, Mediæval Figure Sculpture in England (Cambridge Univ. Press); Gardner, Handbook of Greek Sculpture (Macmillan).

12. Metal Work.—Professor Traquair. First Term (given in 1936-37).

Text-books:—Murphy, English and Scottish Wrought Iron Work, (Scribner); Starkie Gardner, Ironwork, (Victoria and Albert Museum); Lethaby, Leadwork, (Macmillan).

13. Color Decoration.—Professor Traquair. Second Term (given in 1936-37).

Text-books:—Merson, Vitraux, (Maison Quant), Day, Windows (Batsford).

C.-History

14. Ancient and Classical Architecture. 48 lectures—Professor Traquair.

Text-books:—Banister Fletcher, History of Architecture, (Batsford); Anderson and Spiers, Architecture of Ancient Greece, (Batsford); Anderson and Spiers, Architecture of Ancient Rome (Batsford).

15. MEDIAEVAL ARCHITECTURE. 48 lectures—Professor Traquair.

Text-books:—Power, Mediæval Architecture (Talbot); Faure, History of Art (Harpers); Bond, Gothic Architecture in England (Batsford); Prior, History of Gothic Art in England (Bell).

16. Renaissance Architecture. 48 lectures.—Professor Traquair. Text-books:—Anderson, Italian Renaissance Architecture, (Batsford); Ward, French Renaissance Architecture; (Batsford); Blomfield, Short History of Renaissance Architecture in England (Bell); Gotch, Architecture of the Renaissance in England (Batsford).

17. Modern Architecture. 48 lectures—Professor Traquair.

Text-books:—Clark, The Gothic Revival (Constable); Richardson,
Monumental Classic Architecture in Great Britain (Batsford).

D.-Science

MATHEMATICS. Mathematics 1 of the Faculty of Arts and Science, including Algebra, Geometry and Trigonometry. Mechanics 194 is taken in Engineering. (See page 262.)

- 346. Surveying. (P. 191 or Arts and Science 1), 48 lectures.
- 347. Surveying Fieldwork. Fieldwork, 4 weeks' field school.
- 348. MAPPING. 24 drafting periods.
- 23 and 24. HYGIENE OF BUILDINGS. 24 lectures in first term, 12 lectures and one graphical problem in second term.
 - 23. First term.—Professor Macdonald.
 - 24. Second term.—Professor Patten.

E.—Construction

18. Building Construction I. 48 lectures and 48 drafting periods.

Professor Turner.

Text-books:—Frame Construction Details (Nat. Lumber Manf. Assn.); Manual of Face Brick Construction (American Face Brick Assn.).

- - 20. Building Materials. 12 lectures Professor Turner.

Text-books:—Knobloch, Good Practice in Construction (Batsford); Voss and Henry, Architectural Construction (Wiley); Jaggard and Drury, Architectural Building Construction, Vol. 1 (Cambridge Univ. Press); Hollman, Wood Construction (McGraw-Hill); Gay and Archer, Materials and Methods of Architectural Construction (Wiley).

P—Prerequisite. See page 274.

Text-books:—Hauf, Design of Steel Buildings (Wiley); Howe, Retaining Walls for Earth (Wiley); Turneaure and Maurer, Principles of Reinforced Concrete Construction (Wiley); Useful Data (Kalman Steel Company); Handbook of Reinforced Concrete Building Design (American Concrete Institute); Draffin, Strength of Materials (Wiley); Malcolm, Graphic Statics (Clarke); Steel Construction (American Institute of Steel Construction).

F.—Architectural Practice

25. Professional Practice. 24 lectures and 24 drafting periods.

Professor Turner.

Text-books:—Handbook of Architectural Practice (A.I.A.); N.Y. Building Congress Standard Specifications; Emerson, Modern Building Superintendence and the Writing of Specifications (Blake); Architects' Law Manual (Constable).

G.—Drawing

8. Architectural Drawing I. 14 drafting periods.

Professor.....

- 9. Architectural Drawing II. (P. 8). 8 drafting periods.
 Professor.....
- 26. Buildings studied during the summer sketching classes are drawn.

 Professor Traquair.
- 30. Modelling. Two periods a week for the first term of the fifth year.

 Professor.....
- 31, 32, 33, 34. An essay prepared during the session, on an historical or a theoretical subject, is required each year from all students except those of the First Year.

35, 36, 37, 38. SUMMER WORK.

During the vacations following the close of the First, Second, Third and Fourth Years, students are required to read and to be prepared to pass an examination on a selected architectural work. Every student must, before he receives his degree, have had at least eight months' experience in

P-Prerequisite. See page 274.

251

an architect's or contractor's office satisfactory to the Faculty. The regulations of the Royal Institute of British Architects require that a candidate for the special examination shall have had at least twelve months' experience in an architect's office. Graduates will not be admitted to this examination until they have fulfilled the requirement.

Text books set for summer reading include the following:—Quennell, A History of Everyday Things in England, Part II (Batsford); Cellini, Autobiography (Dent); Ruskin, Seven Lamps of Architecture (Dent); A. Clutton Brock, William Morris—His Work and Influence (Williams & Norgate).

A summer school in surveying is taken in the four weeks following the sessional examinations of the First Year.

39, 40. A summer school in sketching and measuring is attended by all students between the Second and Third, and between the Third and Fourth Years, in the latter part of September, for the study of buildings in Canada and in the United States.

For summer reading, see page 244.

DEPARTMENT OF CHEMISTRY

MACDONALD PROFESSOR OF PHYSICAL CHEMISTRY:—O. MAASS.

E. B. Eddy Professor of Industrial and Cellulose Chemistry:—
Harold Hibbert.

PROFESSOR:-NEVIL NORTON EVANS.

ASSOCIATE PROFESSOR:-W. H. HATCHER.

Assistant Professors:—

(C. F. H. Allen,
E. W. R. Steacie,
J. H. Mennie,
W. H. Barnes.

LECTURER:- J. B. PHILLIPS.

And demonstrators and graduate assistants.

First Year Lectures and Laboratory.

51A. ELEMENTARY PHYSICAL CHEMISTRY AND LABORATORY. Two lectures and one one-hour problem period per week..... Professor Maass.

Text-book:—Maass & Steacie, Introduction to the Principles of Physical Chemistry, (Wiley).

Second Year Lectures and Laboratory.

54. INORGANIC QUALITATIVE ANALYSIS. (P. 51A, C. 55.) Ten lectures per week for the four weeks of Summer School. (See page 242.)

Professor Evans.

Text-book:—Evans, Notes on the Theory of Qualitative Analysis; Stieglitz, Qualitative Chemical Analysis, (Century).

- 61. INORGANIC QUANTITATIVE ANALYSIS AND LABORATORY. One lecture and three laboratory periods per week.......Professor Mennie.

Third Year Lectures and Laboratory.

- 62. INORGANIC QUANTITATIVE ANALYSIS AND LABORATORY. One lecture and three laboratory periods per week, first term. . Professor Mennie.

P—Prerequisite. C—Concurrent. See page 274.

253

*65. ADVANCED ORGANIC CHEMISTRY AND LABORATORY. (Arts and Science 5.) (P. 56.)

Three lectures and four laboratory periods per week, first term, and three laboratory periods per week, second term.......... Professor Allen.

Text-books:—Nernst, Theoretical Chemistry (Macmillan); Taylor, Treatise on Physical Chemistry (Van Nostrand).

67. INORGANIC QUANTITATIVE ANALYSIS AND LABORATORY. (P. 61.)
Four weeks Summer School preceding the Third Year. (See page 242.)
Professor Mennie.

Text-books:—Lord and Demorest, Metallurgical Analysis (McGraw-Hill); Treadwell-Hall, Quantitative Analysis (Wiley): Hillebrand and Lundell, Applied Inorganic Analysis (Wiley); Lundell, Hoffman, and Bright, Chemical Analysis of Iron and Steel (Wiley); Kolthoff-Furman, Volumetric Analysis (Wiley); Kolthoff-Furman, Potentiometric Titrations (Wiley).

Fourth Year Lectures and Laboratory.

*66A. Physical and Colloid Chemistry Laboratory. (Arts and Science 7A.) Three laboratory periods per week.

Professors Maass and Steacie.

Text-book:—Daniels, Matthews and Williams, Experimental Physical Chemistry (McGraw-Hill).

- 67A. INORGANIC QUANTITATIVE ANALYSIS AND LABORATORY. One lecture and three laboratory periods per week, first term. Professor Mennie. Text-books:—As for course 67.

^{*}Courses marked with a star are open to graduates as well as undergraduates.

P-Prerequisite. See page 274.

70A. APPLIED ELECTROCHEMISTRY. Two lectures per week, first term
71. INORGANIC QUANTITATIVE ANALYSIS. One lecture and three laboratory periods per week, first term
*72. ADVANCED INORGANIC CHEMISTRY. (Arts and Science 6.) Two lectures per week
*74. HISTORY OF CHEMISTRY. (Arts and Science 9.) One lecture per

- *75. COLLOID CHEMISTRY. (Arts and Science 15.) Two lectures per week first term. (Laboratory work, see 66A)........ Professor Steacie. Text-book:—Kruyt, Colloids (Wiley).
 - 77. CHEMICAL ENGINEERING. (P. 63, C. 78.) Five hours per week.

 Dr. Phillips.

Graduates in Chemical Engineering may proceed, if their work has been of sufficiently high standard, to the degree of M.Sc. in Chemistry. See page 385.

^{*}Subjects marked with a star are open to graduates as well as undergraduates.

P—Prerequisite. C—Concurrent. See page 274.

DEPARTMENT OF CIVIL ENGINEERING AND APPLIED MECHANICS

PROFESSORS:—

E. BROWN

R. DEL. FRENCH

R. E. JAMIESON

ASSOCIATE PROFESSOR:—G. J. DODD

ASSISTANT PROFESSORS:—

F. M. WOOD

JAMES WEIR

LECTURER:—CARLETON CRAIG

RESEARCH FELLOW:—C. M. MORSSEN

Assistant in Charge of Testing Laboratory:—S. D. MacNab

First Year.

80. Engineering Problems. Three hours per week.

Professors Dodd, Wood and Weir.

Second Year.

- 80A. Engineering Problems. Two hours per week, second term.

 Professor Maass and Dr. Phillips.
- 81. Materials of Engineering. One hour per week, session.

 Professors Jamieson, French and Sproule.

Third Year.

86. Mechanics. (P. 83, 198). Two lectures per week, first term.

Professor Wood.

Text-books:—Worthington, Dynamics of Rotation (Longmans Green); Poorman, Applied Mechanics (McGraw-Hill).

Text-books:—Morley, Strength of Materials (Longmans Green); Case, Strength of Materials (Arnold); Timoshenko, Strength of Materials, Part I (Van Nostrand).

- 88. Strength of Materials Laboratory. (C. 87.) Three hours per week, second term...... Professors Jamieson, Dodd and Wood.

Text-book:—Jacoby and Davis, Foundations of Bridges and Buildings (McGraw-Hill).

P-Prerequisite. C-Concurrent. See page 274.

Textbooks:—Ketchum, Structural Engineer's Handbook (McGraw-Hill); Ketchum, Mill Buildings (McGraw-Hill); Bishop, Structural Drafting and Design of Details (Wiley); Voss and Varney, Architectural Construction, Vol. II, Book Two, Steel Construction (Wiley); Carnegie Pocket Companion.

Text-books:—Allen, Railroad Curves and Earthwork (McGraw-Hill); Williams, Design of Railway Location (Wiley).

- - 97. Hydraulics. (P. 83.) Two hours per week, first term.

Professor Brown.

Text-books:—Schoder and Dawson, Hydraulics (McGraw-Hill); Gibson, Hydraulics and its Applications (Constable).

- - 82. Sanitary Science. Four hours per week, first term. Dr. Starkey.

Text-book:—Bruce, Highway Design and Construction (Int. Text-book Co.).

Fourth Year.

94. Theory of Structures. (P. 87.)

One lecture and three hours problems per week, first term; two lectures and six hours problems per week, second term......Professor Jamieson.

Text-rooks:—Johnson, Bryan and Turneaure, Modern Framed Structures, Parts I and II (Wiley); Spofford, Theory of Structures (McGraw-Hill); Sutherland and Bowman, Structural Theory (Wiley).

P-Prerequisite. C-Concurrent. See page 274.

Text-books:—Morley, Strength of Materials (Longmans Green); Case, Strength of Materials (Arnold); Timoshenko and Lessels, Applied Elasticity (W. T. N. S. Press); Taylor, Thompson and Smulski, Concrete, Plain and Reinforced, Vol. II (Wiley); Turneaure and Maurer, Principles of Reinforced Concrete Construction (Wiley); Hool, Reinforced Concrete Construction, Vols. II and III (McGraw-Hill); Hool and Johnson, Concrete Engineers' Handbook (McGraw-Hill); Standard Specifications or Concrete and Reinforced Concrete.

Text-books:—Kirkham, Structural Engineering (McGraw-Hill); Ketchum, Structural Engineer's Handbook (McGraw-Hill); Waddell, Bridge Engineering (Wiley).

- - 99. Hydraulic Machines. (C. 97) Two hours per week, second term.

 Professor Brown.

Text-book:—Creager and Justin, Hydro-Electric Handbook (Wiley).

- 101. Municipal Engineering. (P. 97, 98.) Two lectures per week, session, three hours problems per week, second term....Professor French.

Text-books:—Babbitt and Doland, Water Supply Engineering (McGraw-Hill); Metcalf and Eddy, Sewerage and Sewage Disposal (McGraw-Hill).

102. WATER SUPPLY AND SEWERAGE. (P. 82, 97, 98.)

Three lectures and six hours problems per week in second term.

Professor French.

Text-books:—As for Courses 101.

103. WASTE DISPOSAL. (P. 82.) One hour per week, first term.

Professor French.

Text-book:—Hering and Greeley, Collection and Disposal of Municipal Refuse (McGraw-Hill).

104. CIVIC ADMINISTRATION. One hour per week, first term.

Professor French.

Courses for the Degree of Master of Engineering

Graduate Courses are offered in Statically Indeterminate Stresses, Technical Elasticity, Secondary Stresses, Hydraulics, and Highway Engineering.

For particulars of these see page 402.

P-Prerequisite.

C—Concurrent.

See page 274.

DEPARTMENT OF DRAWING AND DESCRIPTIVE GEOMETRY

PROFESSOR:—HENRY F. ARMSTRONG

Demonstrators:
(1934-35)

L. R. McCurdy
L. J. Arcand
C. J. Pimenoff
G. D. Poole

First Year.

340. MECHANICAL DRAWING. Three hours per week.

Professor Armstrong.

Text-book:—Book of Plates (obtainable at Bursar's Office).

Text-books:—Armstrong, Geometrical Drawing; Armstrong, Descriptive Geometry (Wiley).

342. Freehand Drawing. One hour and a half per week.

Professor Armstrong.

343. Lettering. One hour and a half per week. Professor Armstrong.

Second Year.

344. MECHANICAL DRAWING. (P. 340.) Three hours per week.

Professor Armstrong.

P—Prerequisite. See page 274.

DEPARTMENT OF ELECTRICAL ENGINEERING

PROFESSOR:—C. V. CHRISTIE

ASSOCIATE PROFESSOR:—G. A. WALLACE

Assistant Professor:-E. G. Burr

LECTURERS:—{W. H. SCHIPPEL F. S. HOWES

DEMONSTRATOR: -S. A. CRAIG

112. ELECTRICAL ENGINEERING LABORATORY. (C. 111.) Three hours per week.

Third Year.

113. ELECTRICAL ENGINEERING. (P. 198, 315.) Four hours per week.

Professor Christie.

Text-book:—Christie, Electrical Engineering (McGraw-Hill).

114. Electrical Engineering Laboratory. (C. 113.) Laboratory, six hours per week. Fourth Year. Problems, six hours per week.

Fourth Year.

- 121. ELECTRIC TRACTION. (C. 117.) Two hours per week, second term.

 Professor Wallace.

 Text-book:—Standard Handbook for Electrical Engineers (McGraw-Hill).

P-Prerequisite. C-Concurrent. See page 274.

- 124. Electrical Measurements and Laboratory. (P. 113.) Two lectures per week, first term. One laboratory period per week, session.

 Professor Wallace.
- 125. THERMIONIC TUBE THEORY AND APPLICATIONS. (P. 318, 113.) Two lectures and one laboratory period per week, first term....Dr. Howes. *Text-book:* Terman, Radio Engineering (McGraw-Hill).
- 126. Communication Engineering—Wire Communication. (P. 201, 113.) Two lectures per week, second term......... Professor Wallace.

Courses for the Degree of Master of Engineering or Master of Science

Graduate courses are offered in Advanced Mathematics, Physics, Electrical Machine Design, Protection of Electrical Power Systems, Stability of Electrical Power Systems, Inductive Co-ordination of Power and Signal Systems, Electric Circuit Analysis, and Advanced Wire Transmission Theory.

For particulars of these see page 406.

ENGINEERING LAW AND ECONOMICS

Professor of Accountancy:—R. R. Thompson
Sessional Lecturer in Economics:—H. Carl Goldenberg.
Lecturer in Law:—J. W. Weldon

172. (P. 171.) (a) CORPORATION FINANCE.....Professor Thompson. (b) CANADIAN ECONOMIC PROBLEMS.

175. Engineering Law. One hour per week.....Mr. Weldon.

P-Prerequisite. C-Concurrent. See page 274.

ENGINEERING PRACTICE

A series of related courses designed to acquaint the student with the historical background of his profession, its relation to other professions and its place in the structure of modern society, the usage of English, both written and spoken, in engineering and business; methods of statistical analysis, etc. Frequent extra-curricular lectures are given by qualified speakers from other Faculties or from outside the University.

135. HISTORY OF SCIENCE. One hour per week, session.

136. Engineering Reports. One hour per week, session.

137. Engineering Reports. (P. 136.) One hour per week, session.

138. Engineering Relations. One hour per week, session.

A bonus of 25 marks is granted to each student who successfully completes either 137 or 138; this bonus is considered in ranking students, but not in determining whether they have passed their years.

DEPARTMENT OF GEOLOGICAL SCIENCES

PROFESSOR OF GEOLOGY:—JOHN J. O'NEILL
PROFESSOR OF MINERALOGY:—R. P. D. GRAHAM
PROFESSOR OF PALAEONTOLOGY:—T. H. CLARK

Assistant Professors of Geology:—{ J. E. Gill F. F. Osborne

LEROY FELLOW IN GEOLOGY:- J. E. RIDDELL

Third Year.

141. GENERAL GEOLOGY. (Arts and Science 1.)

Two lectures and two hours laboratory per week.—Professor Clark. Text-books:—Longwell, Knopf & Flint, Physical Geology (Wiley); Schuchert, Outline of Historical Geology (Wiley).

142. Mineralogy. (Arts and Science 5.) Two lectures per week.

Professor Graham.

143a. Determinative Mineralogy. (Chemical engineers only.)
One laboratory period, first term................................. Professor Graham.

Fourth Year.

146. Petrography. (Arts and Science 10. P. 141.) One lecture, one laboratory period, first term; one laboratory period, second term.—

Professors Graham and Osborne.

References:—Knopf, Rocks and Rock Minerals (Wiley); Smith, Minerals and the Microscope (Morby).

P—Prerequisite. See page 274.

147. Practical and Field Geology. (Arts and Science 7. P. 141.)
One lecture, one laboratory period, first term............... Professor Gill.

148. Ore Deposits. (Arts and Science 8. P. 141, C. 147.) Four lectures per week. second term Professor O'Neill.

Text-books:—Lindgren, Mineral Deposits, (McGraw-Hill); Leith, Economic Aspects of Geology (Holt); Emmons, Geology of Petroleum (McGraw-Hill); Kemp, Ore Deposits of the U.S. and Canada (Scientific Pub. Co.); publications of the Geological Surveys of the U.S. and of Canada.

153. FIELD WORK AND GEOLOGICAL MAPPING. (P. 141, 142, 143.)

Professors O'Neill, Clark and Gill.

DEPARTMENT OF MATHEMATICS

Professors and Joint Chairmen:—

{
N. B. MacLean
C. T. Sullivan

PROFESSOR:—W. L. G. WILLIAMS

Assistant Professors:—

{F. M. Wood Gordon Pall

LECTURER:—CARLETON CRAIG

First Year.

192. ALGEBRA. Three hours per week. Professors Williams and Pall. Text-book:—Barnard and Child, A New Algebra, Vol. II. (Macmillan).

193. Spherical Trigonometry. Second term, two hours per week.

Professor Wood and Mr. Craig.

Text-books:—Murray, Spherical Trigonometry (Longmans, Green).

194. MECHANICS. Two hours per week. Professor Wood and Mr. Craig Text-book:—Mimeographed notes.

P-Prerequisite. C-Concurrent. See page 274.

195. Analytic Geometry. (C. 192.) Two hours per week.

Professors MacLean and Pall.

Text-book:—Nowlan, Analytic Geometry, 1933 Edition (McGraw-Hill).

Second Year.

197 ALGEBRA. (P. 192.) First term, three hours per week.

Professors Williams and Pall.

Text-book:-As in 192.

198. CALCULUS. (P. 192.) First term, two hours per week; second term, four hours per week......... Professors MacLean and Williams. Text-book:—Granville, Smith and Longley, Elements of the Differential and Integral Calculus. (Ginn and Co.)

Third Year.

DEPARTMENT OF MECHANICAL ENGINEERING

Professors:—{C. M. McKergow A. R. Roberts
Assistant Professors:—{J. A. Coote R. H. Patten Lecturer:—L. R. McCurdy
Shop Instructor:—F. G. Corrock

Second Year.

Third Year.

223. Mechanical Engineering Laboratory. (C. 226.) Six hours per week, first term; three hours per week, second term. Professor Patten. *Text-book:*—Diederichs and Andrae, Experimental Engineering Wiley).

P—Prerequisite. C—Concurrent. See page 274.

225. Machine Design. (C. 87, 231.) Two hours per week.

Professor Roberts.

Text-books:—Unwin, Machine Design, Part I. (Longmans Green); McKay, Principles of Machine Design (Arnold); Kimball and Barr, Elements of Machine Design (Wiley).

226. MECHANICAL ENGINEERING. (C. 228.) Two hours per week.

Professor McKergow.

Text-book:—MacNaughton, Steam Engines (John Wiley & Sons).

227. MECHANICAL ENGINEERING. (C. 228.) Three hours per week.

Professor McKergow.

Text-book: - As for 226.

229. Thermodynamics. (P. 198.) Two hours per week.

Professor Roberts.

Text-books:—Marks and Davis, Steam Tables (Longmans Green); Moyer, Calderwood and Potter, Elements of Engineering Thermodynamics (Wiley); Kiefer and Stuart, Engineering Thermodynamics (Wiley).

- 233. SUMMER SCHOOL. Introductory to courses 236 and 231. Four weeks in September, preceding the work of the Third Year.

Messrs. McCurdy and Corrocke 236. Machine Shop. Three hours per week, session. Mr. Corrocke

237. Industrial Engineering. Two lectures per week, first term.

Professor Coote.

Text-book:—Kimball, Industrial Organization (McGraw-Hill).

Fourth Year.

240. MECHANICS OF MACHINES. (P. 224.) (a) Valve gears and governors

(b) Aerodynamics. Three hours per week.

Professor McKergow & Mr. McCurdy. Text-book:—Elementary Applied Aerodynamics (Whitlock-Oxford).

P-Prerequisite. C-Concurrent. See page 274.

- 241. Designing. (P. 225, 231, C. 242.) Three hours per week.

 Professor Roberts.
- 242. Machine Design. (P. 225, C. 241.) Two hours per week.

 Professor Roberts.

 Text-books:—Unwin, Machine Design, Parts I and II (Longmans

Green); Kimball and Barr, Elements of Machine Design (Wiley).

- 243. Machine Design. (P. 225.) Optional for Electrical Engineering students. Two hours per week, second term......Professor Roberts.

- 249A. MECHANICAL ENGINEERING LABORATORY. (P. 227, 228.) Required of students in Fourth Year Mechanical Engineering who take the Industrial Administration option. Two periods per week.
 - 251. Thermodynamics. (P. 228, 229.) Two hours per week.

 Professor Roberts.

Text-books:—Kiefer and Stuart, Engineering Thermodynamics (Wiley); Clerk, The Gas, Petrol and Oil Engine, Part I (Wiley); Moyer, Steam Turbine (Wiley).

- 252. Machine Shop. (P. 236.) Three hours per week. Mr. Corrock.
- 254. Industrial Administration. (C. 252.) One lecture and one drafting room period per week, second term...........Professor Coote.

Text-book:—Diederichs and Andrae, Experimental Engineering (Wiley).

P-Prerequisite. C-Concurrent. See page 274

258. Industrial Relations. Two lectures per week, first term.

Professor Coote.

Text-book:-Watkins, Labor Managenent (McGraw-Hill).

Summer Schools—see note (c), page 42.

Courses for the Degree of Mister of Engineering or Master of Science

Graduate Courses are offered in Engineering Thermodynamics, Machine Design and Industrial Engineering. For particulars of these see page 420.

DEPARTMENT OF METALLURGICAL ENGINEERING

Professor:—Alfred Stansfield
Associate Professor:—Gordon St. G. Sproule
Sessional Lecturer:—Harold J. Roast
Special Lecturer:—Charles F. Pascoe
Research Scholar:—

Third Year.

261. ELEMENTARY METALLURGY AND LABORATORY. One lecture per week, session; one laboratory period per week, second term.

Professor Sproule.

Text-book:—Stoughton and Butts, Engineering Metallurgy (McGraw-Hill).

262. ELEMENTARY METALLURGY. Lectures as in 261, but without laboratory work. One lecture per week, session......Professor Sproule.

263. Fire-Assaying. (C. 264.) One lecture per week, second term.

Professor Sproule.

264. Fire-Assaying Laboratory. (C 263.) Two laboratory periods per week, second term, for Metallurgical and Mining students.

Professor Sproule.

Text-books:—Smith, Sampling and Assay of the Precious Metals (Griffin); Bugbee, Fire-Assaying (Wiley); Fulton and Sharwood, Manual of Fire-Assaying (McGraw-Hill).

P-Prerequisite. C-Concurrent. See page 274.

Text-book:—Butts, Metallurgical Problems (McGraw-Hill).

266. Physical Metallurgy. One lecture and two hours laboratory per week, first term, for Mechanical Engineering students.

Professors Stansfield and Sproule.

267. METALLURGICAL FIELD SCHOOL. Held at the end of the Third Year; includes visits to metallurgical works in Montreal and vicinity, and to smelters, steel-works and metallurgical refineries within a reasonable distance of Montreal. Students are required to keep notes and to submit a written account of their observations at the beginning of the next term. The only expense is for board, lodging and railway fares; care is taken to keep these as low as possible.

At the close of the School it is usually possible for students to obtain suitable summer employment at one of the works visited, and they are strongly advised to obtain metallurgical experience thus.

Fourth Year.

271. METALLURGY (General). (P. 261 or 262.) Two lectures per week, session, and a few laboratory demonstrations..... Professor Stansfield.

Text-books:—Boylston, Introduction to the Metallurgy of Iron and Steel, (Wiley); Stoughton, Metallurgy of Iron and Steel (McGraw-Hill); Liddell, Handbook of Non-ferrous Metallurgy (McGraw-Hill), "Metals and Alloys" Magazine (Chem. Catalog. Co.); Transactions and "Metal Progress" Magazine (Amer. Soc. for Metals).

272. METALLURGY (Advanced). (P. 261 or 262, C. 271.)

274. METALLURGICAL LABORATORY AND THESIS. (P. 261, C. 271.) Three laboratory periods per week, second term....Professor Stansfield.

P-Prerequisite. C-Concurrent. See page 274.

275. ELECTRO-METALLURGY AND LABORATORY. (P. 261 or 262, C. 271.) Two lectures per week and one laboratory period, second term.

Professor Stansfield.

Text-books:—Stansfield, The Electric Furnace (McGraw-Hill); Electric Furnace for Iron and Steel (McGraw-Hill).

- 278. METALLURGICAL CALCULATIONS AND DESIGN. (P. 265, C. 272). Two periods per week in the library and drafting room, second term.

Professor Stansfield.

- - 280. METALLOGRAPHY. One lecture a week, first term.

Professor Sproule.

Text-books:—Sauveur, Metallography of Iron and Steel (University Press); Gulliver, Metallic Alloys (Griffin).

- 284. METALLURGICAL LABORATORY. (P. 262, C. 271.) One period per week, second term, arranged to illustrate 262 and 271.

Professors Stansfield and Sproule.

Graduate Course for Aviation Officers. A course dealing with the properties and treatment of metals and alloys is offered to Officers of the Royal Canadian Air Force. It is given in the first term and consists of lectures, oral instruction, directed reading and laboratory work.—Professors Stansfield and Sproule.

Courses for the Degree of Master of Engineering

Graduate Courses are offered in Advanced Metallurgy, Electro-Metallurgy, Metallurgical Analysis and Metallography. For particulars of these see page 420.

P-Prerequisite. C-Concurrent. See page 274.

DEPARTMENT OF MINING ENGINEERING

Professors:—{Wilbert G. McBride John W. Bell

Assistant Professor:—Osburn Nicholson Brown Douglas Research Fellow:—W. Brodie Hicks

Third Year.

Text-books:—H. C. Hoover, Principles of Mining (McGraw-Hill); Taggart, Handbook of Ore Dressing (Wiley); Peele, Mining Engineers' Handbook (Wiley); Lewis, Elements of Mining (Wiley).

Fourth Year.

297. MINING ENGINEERING. (P. 226, 291.) Three lectures per week.

Professors McBride and Brown.

298. MINING DESIGN. (P. 111, 112, 226, C. 297, 300.) Two drafting-room periods per week, second term. . Professors McBride, Bell and Brown.

301. MINING COLLOQUIUM. (C. 297, 300.) One hour per week in the second term is given to papers on work done in the department and to other matters relating to mining and ore-dressing.

305. Ore-Dressing Laboratory. (P.292, C.300.) One afternoon per week, first term.

306. ORE-DRESSING LABORATORY AND THESIS WORK. (P. 264, 307.) One day and one afternoon per week, second term.

P-Prerequisite. C-Concurrent. See page 274.

307. One afternoon per week, first term, leading to 306.

Text-books:-Hamilton, Manual of Cyanidation (McGraw-Hill); Rabone, Flotation Plant Practice (Mining Publications); Hager, Oil-field Practice (McGraw-Hill); Donaldson, Practical Shaft Sinking (McGraw-Hill); Brinsmade, Mining without Timber (McGraw-Hill); Downey, Timbering of Metalliferous Mines (Griffin); Ketchum, Design of Mine Structures (McGraw-Hill); Peele, Compressed Air Plant (Wiley); Richards and Locke, Text Book of Ore Dressing (McGraw-Hill); Julian and Smart, Cyaniding Gold and Silver Ores (Griffin); Megraw, Details of Cyanide Practice (McGraw-Hill); Coal Miners' Pocketbook (McGraw-Hill); T. J. Hoover, Concentrating Ores by Flotation (Mining Magazine); Mitke, Mining Methods (McGraw-Hill); Young, Working of Unstratified Mineral Deposits (Benn); Young, Elements of Mining (McGraw-Hill); Chapman and Mott, The Cleaning of Coal (Chapman & Hall); Bullman, The Working of Coal and Other Stratified Minerals (Benn); Baxter & Parks, Mine Examination and Valuation (Finnish Lutheran Book Concern); Hoover, The Economics of Mining (Stanford University Press); Year Book 1929, Coal Mine Mechanization (American Mining Congress); Weeks, The Ventilation of Mines (McGraw-Hill); Beards, Mine Gases and Ventilation (McGraw-Hill); Gaudins, Flotation (McGraw-Hill).

RESEARCH FELLOWSHIPS AND GRADUATE COURSES

Courses are offered for graduate students in mining and ore-dressing. (See page 421.) There are three endowed Research Fellowships in the Department. These are assigned to graduates of the Department who show particular aptitude for advanced work.

FIELD SCHOOL IN MINING

294. (P. 141.) All students in Mining Engineering are required to attend the field class at the end of the Third Year.

The work is confined to an intensive study of one or more districts with possible visits to nearby districts. The student is guided by the staff and is required to work in a mine or ore-dressing plant for at least two months. He is also required to submit his notes and an essay on some phase of the work at the beginning of the Fourth Year.

Courses for the Degree of Master of Engineering

Graduate Courses are offered in Mining Engineering, Mine Organization and Management, Settling of Finely Divided Minerals in Water, Filtration in Ore-Dressing and Cyanidation, Cyanidation of Gold and Silver Ores, Theory and Practice of Flotation, Fine Grinding and Mine Ventilation.

For particulars of these see page 421.

DEPARTMENT OF PHYSICS

HEAD OF THE DEPARTMENT:-A. N. SHAW

Professors:— L. V. King D. A. Keys J. S. Foster

Associate Professor:—H. E. Reilley Assistant Professor:—W. H. Watson Lecturer in Astro-Physics:—A. V. Douglas Sessional Lecturer:—H. G. I. Watson (1934-35)

DEMONSTRATORS:—
(1934-35)

F. R. TERROUX
C. A. HORTON
E. R. POUNDER
F. W. SIMONS
DURNFORD SMITH

INSTRUCTOR IN LABORATORY TECHNIQUE:-H. T. PYE

First Year (Architecture.)

GENERAL COURSE. (Arts and Science 1.) Two hours per week.— Professor Keys.

Text-book:—Kimball, College Physics (Holt).

LABORATORY COURSE. (Arts and Science 1.) Two hours per week—Professor Keys and Staff.

Text-book: - Mimeographed notes.

First Year.

311. Heat, Sound and Light. (Arts and Science 2.) (C. 312.) Two hours per week and weekly voluntary tutorial class.—Professor Shaw.

Text-book:—Duncan & Starling, Heat, Light and Sound (Macmillan). 312. Laboratory Course. (Arts and Science 2.) (C. 311.) Two hours per week.—Professor Keys and staff.

Text-book: - Mimeographed notes.

Second Year.

315. ELECTRICITY AND MAGNETISM. (Arts and Science 3A.) (C. 316.) (P. 311.) Two hours per week.—Professor Reilley.

Text-books:—Hadley, Magnetism and Electricity for Students, (Macmillan); Mimeographed notes.

316. Laboratory Course. (Arts and Science 3A.) (P. 311, C. 315.) Two hours per week.—Dr. H. G. I. Watson and staff.

Third Year.

For Graduate Courses in Physics, see page 426.

P-Prerequisite. See page 274.

COURSE IN ENGINEERING PHYSICS

This course is intended to train men for research or academic positions. It is available to

- (1) students in the Faculty of Arts and Science entering their third year who have satisfactorily completed the second year Honour Course in Mathematics and Physics.
- and (2) students in Engineering who have completed the first and second years with first or second class standing in Mathematics and Physics, subject to the approval of the Chairmen of the Departments of Electrical Engineering and Physics.

Third Year.

Mathematics. 6 & 7. Physics. 5A, 5B, 6B (or 8B). Electrical Engineering. 113, 114.

Fourth Year.

Mathematics. 10 or 11. Physics. 6A, 7A, 7B, 8A, and 8B (or 6B), 9, 10. Summer Thesis or Shop Work.

The student may now receive the B.Sc. degree with Honours in Mathematics and Physics. In his fifth year he may either proceed towards the M.Sc. degree taking some of the fourth year Electrical Engineering courses as advised by the Chairmen of the Departments of Physics and Electrical Engineering; or, if he has completed the first and second years in Engineering, he may proceed to the degree of Bachelor of Engineering in Electrical Engineering, taking such subjects of the third and fourth year courses in Electrical Engineering as are approved by the Faculty of Engineering.

DEPARTMENT OF SURVEYING AND GEODESY

Associate Professor:—A. J. Kelly Assistant Professor:—James Weir

Second Year.

347. FIELD WORK.

348. MAPPING.

Third Year

P-Prerequisite. C-Concurrent. See page 274.

354. FIELD WORK. (P. 346, 347.)

Fourth Year

361. FIELD WORK. (P. 353, 354.)

360. GEODETIC LABORATORY. (C. 359.)

FIELD WORK

Field work is required of all students entering the Second Year, of students entering the Third Year in the courses in Civil and in Mining Engineering, and of students entering the Fourth Year course in Civil Engineering. The work will begin in 1935 on April 29th and will continue for four weeks.

Students entering Second and higher Years from other Universities or from other Faculties, who cannot attend the above courses in Field Work, must attend Special Summer Schools, details of which are given on page 242.

DEPARTMENT OF PHYSICAL EDUCATION

See page 161.

REGULATIONS CONCERNING PREREQUISITE SUBJECTS, STANDING AND PROMOTION

- (1) Students proceeding to a degree are classed as Undergraduates or Conditioned Undergraduates. Undergraduates are those who, having passed all entrance requirements, have also at the close of any session passed the examinations in all the subjects of their course, or who, at the opening of the following session, have removed all conditions by passing supplemental examinations in the subjects in which they had failed. Conditioned Undergraduates are those who have failed to remove all of their conditions as above.
- (2) No student proceeding to a degree is allowed to take any subject unless he has previously passed, or secured exemption in, all prerequisite subjects.
- (3) No undergraduate conditioned in any entrance requirement is permitted to register for any Second Year course nor is any undergraduate conditioned in any First or Second Year subject permitted to register for any Third or Fourth Year courses.
- (4) Conditioned Undergraduates proceeding to a degree must follow a course of study approved by the Faculty on the recommendation of the Committee on Registration, Standing and Promotion. They may be required to repeat subjects in which they have passed, but in which their standing has been low.
- (5) Partial students are those who are not proceeding to a degree. Such students may be admitted to classes without regard to the prerequisite rule, provided that they have obtained the permission of the head of each department concerned, and that their courses are approved by the Committee on Registration, Standing and Promotion.
- (6) If a partial student wishes to obtain undergraduate standing in order to proceed to a degree, he will not be given credit for subjects taken in contravention of the prerequisite rule, until he has also passed examinations or secured exemptions in such prerequisites as may be demanded by the Committee on Registration, Standing and Promotion, and, on the recommendation of this Committee, has had his case approved by a unanimous vote of the Faculty.
 - (7) Partial students are not eligible to take supplemental examinations.
- (8) No Fourth Year student is allowed a supplemental or special supplemental examination in any subject in the period between the opening of the second term and the date of Convocation.

FACULTY OF MEDICINE

The one hundred and third session of the Faculty will open on September 9th, 1935.

ENTRANCE REQUIREMENTS

A sound general education is an essential foundation for professional training and a four-year course leading to a B.A. or B.Sc. degree is considered the most desirable preparation for the study of medicine. Preference will be given, therefore, to applicants who have had a full academic course in which the humanistic studies have not been sacrificed to a narrow scientific specialization.

Candidates without a degree should have at least three years of college work. In exceptional cases applications may be received from students who have completed two years of work in a recognized college or faculty of Arts, provided they present certificates that they have scholastic standing placing them in the first third of their class.

It is distinctly to be understood that the Faculty does not undertake to accept all students who have passed the courses necessary to fulfil the requirements. It reserves the right to select for admission only those candidates who, in the opinion of the Committee on Admissions, give promise of work of high quality in the medical course.

All applicants must present satisfactory evidence that their college courses include the following:—

Physics—One year of general college Physics with laboratory work.

Biology—One year of General Biology and Zoology with laboratory work. One half-year of Botany and one half-year of Zoology will be accepted, but not one year of Botany alone.

Chemistry:-Two years:-

- (a) One full course of General Chemistry with laboratory work.
- (b) One full course of Organic Chemistry with laboratory work.

Students who wish to pursue their preliminary course at McGill may register as regular undergraduates in the Faculty of Arts and Science and should apply for admission to the Faculty of Medicine at the end of their third year or preferably on graduation.

Candidates for admission to the Faculty of Medicine must also present evidence that they have satisfied the matriculation requirements of the Licensing Body of the Province to which they belong. (For further particulars see "Requirements for Licence to Practise," p. 287.)

APPLICATION FOR ADMISSION

Application for admission to the Faculty of Medicine must be made upon the regular application form which may be obtained from the Secretary of the Faculty.

As the number of students in each class is limited, application should be made early and in any case not later than June 1st.

A fee of \$25.00 is payable by the applicant within ten days of the receipt of notice that he has been accepted for admission. If the applicant registers within the prescribed registration period in September, this fee will be credited on his University fees. If he fails to register, the fee lapses, and will be used by the University to meet the cost of its administration and overhead charges in caring for applicants who do not finally register.

A personal interview with the Dean or Secretary of the Faculty, when possible, is advisable.

APPLICATION FOR EQUIVALENT STANDING

A student of another Medical School who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit to the Secretary of the Faculty an official statement of his preliminary education and of the course he has followed and the standing he has obtained. This should be accompanied by a Calendar of the Medical School in which he has studied, giving a full statement of the courses of study, and by a certificate of moral character and conduct.

REGISTRATION

Students in the Faculty of Medicine will register at the Registrar's Office for the session 1935-36 on September 11th to September 17th, 1935. Those who register after September 17th will be required to pay a late registration fee of \$5.00 if they do so during the first week of the session and \$10.00 if during the second. The fee will not be refunded except for satisfactory reasons and by authorization of the Faculty. No student will be admitted after the fifteenth day of the session except by special permission of the Faculty.

MEDICAL EXAMINATION, ETC.

(See page 95.)

FEES

TUITION FEES:

1.	Annual undergraduate fee for British students	\$360.00
	By instalments: Each of two instalments	182.50
	Annual undergraduate fee for Non-British students	460.00
	By instalments: Each of two instalments	232.50

- 2. Undergraduates repeating a year pay one half the regular tuition fee.
 This includes dissecting material, chemical reagents, laboratories, etc.
- 3. Qualified partial students are admitted to one or more courses on payment of special fees.
- 4. The fee for the graduate course in Public Health, including laboratory and outdoor work, is \$150.00 for British and \$200.00 for Non-British students.

SPECIAL UNIVERSITY FEES:

5	. Late registration, after September 17th	\$ 5.00
	Late registration, after September 24th	10.00
	Supplemental Examinations, each paper	10.00
	Receipts for supplementals must be shown to the Dean's	
	Office before the examination.	
	Duplicate Graduation Diploma	10.00
	Certified copy of student's record	1.00
	Conferring degree in absentia	10.00
	Ad eundem fee for students from another university entering	
	any year above the First	10.00
	Fine for late medical examination (see page 95)\$5.00 o	r 10.00
	Fine for late medical examination (see page 95)\$5.00 o	r 10.00

6. Caution Money. Every student is required to make a deposit of \$10.00 as Caution Money to cover damage done to furniture, apparatus, books, etc. This amount, less deductions, is returned at the close of the session.

STUDENTS' ACTIVITIES:

- 7. A sessional fee of \$18.00 is payable by all men undergraduates and \$13.00 by all women undergraduates, for the support of student organizations, for the rinks and tennis courts and for admission to all home games under the control of the Athletics Board.
- 8. Partial students pay \$3.00 for athletics and athletic grounds. If they desire such of the privileges of Section 7 as are open to them, an additional \$10.50 is charged for men students and \$8.50 for women students.

GENERAL REGULATIONS:

9. Fees are due and payable at the Bursar's Office between the hours of 9 a.m. and 1 p.m. and 2.30 p.m. to 4 p.m. on the following dates:—

Tuesday, September 19th Wednesday, September 20th Thursday, September 21st

or, if desired, fees may be remitted by mail before the above dates. The second instalment of tuition fees is due and payable on February 1st. An additional \$2.00 is charged for payment after the specified dates.

- 10. Students registering late pay their fees at the time of registration failing which they become subject to the provisions of Regulation 9.
- 11. Any student who fails to pay his fees within a month of the prescribed date is suspended until all the fees due have been paid.
- 12. All fees are payable in Canadian currency.
- 13. Domicile will in general determine whether a student pays the British or Non-British fees. A student who is uncertain which rate he will be required to pay should consult the Registrar.

UNIVERSITY LOAN FUND

A Student Loan Fund has been established by the University to assist needy students in the upper years of all Faculties. Loans are made only to students with good academic standing.

For further particulars students should consult the Dean of the Faculty.

MICROSCOPES

Each student, on beginning his studies, is required to provide himself with a first-class microscope for laboratory and private study throughout his course. The microscope must be of substantial construction and be provided, as a minimum, with the following accessories:—2/3, 1/6, and 1/12 oil immersion objective, and a substage condenser. Such an instrument will last a lifetime and is an essential part of the equipment of a practitioner in medicine.

STUDENTS' EXPENSES

1. BOARD AND RESIDENCE

No college residences have as yet been erected for men students, but dormitory accommodation for about 60 men is provided in Strathcona Hall, the home of the Student Christian Association of McGill University. Full particulars concerning terms of residence, etc., may be obtained from the Secretary of the Association, 772 Sherbrooke Street West, Montreal, who will also make arrangements to have students who are strangers to the city met on arrival and helped to secure lodgings, if due notice is sent of the station and time at which they will arrive.

The University Lodgings Committee issues annually a list of lodgings and boarding houses which have been inspected and approved. This list, which gives prices of rooms and meals, may be consulted in the Registrar's Office, in the Medical Building, in the Students' Union or in Strathcona Hall.

Board and lodging can be obtained in private houses in the vicinity of the University buildings at a cost of \$35 to \$60 per month; or separately, board from \$25, and a room from \$12 upwards per month.

Board is furnished in the McGill Union at low rates. The dining room accommodates over 120 students. There is also a lunch counter.

2. ESTIMATED ANNUAL EXPENSES

	British	Non-British
Tuition Fees	\$360.00	\$460.00
Fee for Athletics, Union, etc	18.00	18.00
Caution Money Deposit	10.00	10,00
Board and Lodging (average)	300.00	300.00
Books, Instruments, etc	152.00	152.00
	\$840.00	\$940.00

It will be noted that in the above estimate no account is taken of personal expenses, such as cost of clothes, laundry, etc. Students are advised also to reckon on at least \$20.00 to \$25.00 per annum for subscriptions of various kinds.

COURSE FOR THE M.D., C.M. DEGREE AND EXAMINATIONS

Certain fundamental changes have been initiated in the curriculum, rendering it much more flexible, more balanced and affording the student a certain freedom of choice. Thereby, too, the student assumes more responsibility for his own education. Incidentally he is relieved from an over-crowded curriculum in order to have more time for independent thought and work.

While a certain sequence of courses is essential to a well-ordered curriculum, he will no longer be passed on from year to year in lock step, but may assume greater latitude in the selection of the form and matter of study, and to some extent, too, in the choice of clinical teachers.

A. THE MEDICAL COURSE

The Academic year is divided into three terms of ten weeks and the minimum period of study required for the degree is fifteen terms (five years).

The subjects comprised in the medical course are arranged in two groups:

The Preclinical Group:

Anatomy.

Histology and Embryology.

Biochemistry.

Physiology.

Pharmacology.

The Clinical Group:

Bacteriology.

Pathology.

Public Health and Preventive Medicine.

Medicine (including Pædiatrics, Neurology, Psychiatry, Dermatology and Laboratory Diagnosis).

Surgery (including Urology and Orthopædic Surgery).

Obstetrics and Gynæcology.

Ordinarily, the preclinical subjects occupy two years and the clinical group three years of the course.

In each group the courses offered are of two kinds:

Required Courses covering the ground which is essential to the training of a medical practitioner.

Elective Courses designed to give a broader and deeper training in the major subjects and the specialties.

The required courses are arranged in such a manner that a considerable amount of the student's time is left free for independent study and for elective courses in the pre-clinical and clinical subjects.

The required subjects of each group will ordinarily be taken in a definite sequence but qualified students may be allowed to arrange their schedule in accordance with their interests and previous training.

B. EXAMINATIONS

1. Final or University Examinations will be held in each major required subject of the curriculum. Grades attained in these examinations will be entered in the students' records, and will be the only grades used in determining aggregate standing.

To qualify for the University examinations the student must have fulfilled the following conditions:

- Anatomy: must have completed three terms of instruction in the subject and have passed all the required course examinations.
- Histology and Embryology: must have satisfactorily completed three terms of instruction in the subject and have passed all required course examinations.
- Physiology: must have satisfactorily completed five terms of instruction and have passed all required course examinations.
- Biochemistry: must have completed two terms of instruction and have passed all course examinations in the subject.
- Pharmacology: must have satisfactorily completed one term of instruction.
- Bacteriology: must have completed a course in Bacteriology and must have taken at least six terms of clinical instruction.
- Pathology: must have completed at least six terms of work in the subject.
- Public Health: must have completed the course and have taken at least four terms of clinical instruction.

Medicine: the written examination may be taken at any time after completion of six terms of clinical instruction, including three terms in Medicine. The practical examination may be taken on completion of nine terms of clinical instruction.

Surgery: the written examination may be taken at any time after completion of six terms of clinical instruction, including three terms in Surgery. The practical examination may be taken on completion of nine terms of clinical instruction.

Obstetrics: both written and practical examinations may be taken on the completion of nine terms of clinical instruction.

2. Departmental or Course Examinations, i.e., examinations held during, or at the conclusion of individual courses in any subject and for the purpose of determining the students' progress and fitness to proceed in a given subject.

The following special regulations have been adopted in respect to course examination in the clinical subjects:

- 1. Pathology—A course examination on the termination of the course in General Pathology (9th term).
- 2. Medicine—At the end of each term the group teachers shall report on the progress made by each student in their groups; in addition to this, there shall be a written examination in the 3rd and an oral examination at the end of the 4th year. Written examinations in Therapeutics and Psychiatry will be held during the 4th year.
- Surgery—At the end of each term the group teachers shall report
 on the progress made by each student in their groups; in addition
 to this, there shall be a written examination at the end of the
 fourth year.
- 4. Obstetrics—An oral examination at the end of the course of didactic lectures in the 3rd year; and an oral and practical examination at the end of each term in the 4th year.

To qualify for the Final Examinations leading to the degree, a student must have passed the course examinations in the required subjects of the clinical group, and must have satisfactorily completed the prescribed courses of study and practice in:

- I. Ophthalmology.
- II. Oto-Laryngology.
- III. Psychiatry.
- IV. Infectious Diseases.
- V. Anæsthesia.
- VI. Pathological Anatomical Technique and methods of Post Mortem Examination and Diagnosis.
- VII. Public Health Survey.

The Final Examinations in Medicine, Surgery and Obstetrics must all be passed at one time, but a student who fails in one of these subjects only may, at the discretion of the Faculty, be allowed a re-examination in that subject at the next regular examination period, provided that he shall have satisfactorily completed such additional work as may be prescribed by the Head of the Department concerned.

The Faculty reserves the right to require the withdrawal of any student at any time if, in the opinion of his instructors, he is incompetent.

At the end of the Spring Term, the Promotion Committee will consider the cases of all students who at the conclusion of their third term are reported by their instructors as having fallen below the grade of C and shall determine whether such students are to be allowed to continue, warned, required to repeat the course or courses, or to retire from the Faculty.

Note:—The "Required Courses," together with suitable "Elective Courses" in the second year, will qualify a candidate for the First (Primary) Examination for Fellowship in the Royal College of Surgeons of England and for the Primary Examination for Fellowship in the Royal College of Physicians and Surgeons of Canada.

C. GRADING

At the conclusion of each course, students will be graded in five groups, as follows:—

A = Excellent

B = Good

C = Fair

D = Doubtful

E = Failure

In reporting the grading, the names of those students who attain "A" standing shall be arranged in order of merit; in all other grades the arrangement shall be alphabetical.

The grade assigned to a student shall be based upon the result of the Final Examination, but the instructor will also take into account the record of the work done throughout the course.

The quality of the English used by a candidate will be taken into account in determining his standing in all examinations.

MEDALS, PRIZES, FELLOWSHIPS AND SCHOLARSHIPS

MEDALS

The Holmes Gold Medal, founded by the Medical Faculty in the year 1865, as a memorial of the late Andrew Holmes, Esq., M.D., LL.D., one time Dean of the Faculty of Medicine, is awarded to the student graduating with the highest aggregate number of marks in the different branches comprised in the medical curriculum.

The student who wins the Holmes Medal has the option of exchanging it for a bronze medal and the money equivalent of the gold medal.

The Wood Gold Medal, founded by Casey A. Wood, M.D., LL.D., awarded to the student graduating with the highest aggregate number of marks in the clinical examinations of the Final Year. The winner of the Holmes Medal is not permitted to compete for this medal.

The Sutherland Gold Medal, founded in 1878 by the late Mrs. Sutherland, in memory of her late husband, William Sutherland, M.D., formerly Professor of Chemistry in this Faculty, is awarded for the best examination in Biochemistry, together with a creditable examination in the primary branches.

The Lieutenant-Governor's Silver Medal, to be awarded to the student of the final year, who in the opinion of the head of the Department of Public Health and Preventive Medicine, is most proficient in that subject.

The Lieutenant-Governor's Bronze Medal, to be awarded to the student who obtains the highest standing in the Final Examination in Physiology.

PRIZES

The Joseph Hils Prize. (Founded by the late Dr. Joseph Hils, of Woonsocket, R.I.)—A prize in books, awarded to the student who obtains the highest number of marks in the subject of Pharmacology.

The Joseph Morley Drake Prize. (Founded by the late Joseph Morley Drake, M.D.).—A prize in books, to be awarded to the student who obtains the highest number of marks at the Final Examination in Pathology.

Primary Prize. A prize in books awarded for the best aggregate standing in the subjects of the first division (Anatomy, Histology, Physiology, Biochemistry).

The F. Slater Jackson Prize. An annual prize of \$50.00, founded by Mr. and Mrs. H. F. Jackson in memory of their son, the late F. Slater Jackson, M.D. The prize is awarded on the result of a special examination, written and oral, in Histology and Embryology.

The Alexander D. Stewart Prize. An annual prize in books, founded by the late W. Grant Stewart (Arts 1885, Med. 1888) in memory of his brother, the late Alexander D. Stewart (Med. 1888), to be awarded to the member of the graduating class who, in the opinion of the Faculty, presents in every respect the highest qualifications to practise his profession.

Jeanie Forsyth Prize. Under the will of the late Miss Jeanie Forsyth the interest on \$1,000 is awarded each year "to a worthy and needy student" who, upon graduation, has shown particular ability in all branches

of surgery.

The John Munro Elder Prize. An annual prize of \$25.00 founded in 1935 by Aubrey H. Elder, Esq., K.C., in memory of his father, John M. Elder, M.D., C.M., sometime Assistant Professor of Surgery and Anatomy in the Faculty. The prize is awarded on the result of a special examination in Anatomy.

The Canadian Medical Institute prize of \$25.00, awarded to the Fifth Year student submitting the best essay on "Advantages to be derived from an annual periodic health examination." The decision to be made by the University. Essays must be submitted not later than May 1st.

FELLOWSHIPS

The A. A. Browne Memorial Fellowship.—The sum of \$10,000 was received by the Faculty from the committee of the A. A. Browne Memorial Fund. With this sum a fellowship has been established, to be known as the "A. A. Browne Memorial Fellowship." This fellowship is open to graduates of any recognized Medical School and is for the advancement of medical science, special preference being given to the subjects of obstetrics and gynæcology.

The James Douglas Research Fellowship.—The sum of \$25,000 was donated by the late Dr. James Douglas, the proceeds to be devoted to co-ordinated research in the laboratories of pathology in or associated

with the University.

The James Cooper Fellowships for the Study of Internal Medicine.—This fund of \$60,000 was donated in 1912 by the will of the late James Cooper of Montreal to promote study and research in Internal Medicine.

The John McCrae Fellowship.—A fellowship of approximately \$800, founded in 1918 as a yearly donation by Mr. H. J. Fuller, of New York, in memory of the late Lt.-Col. John McCrae, for the purpose of scientific research in Experimental Surgery. Established as a permanent fellowship in 1920 by Mr. Fuller and the Canadian Fairbanks-Morse Company.

The Clara Law Fellowship, founded in 1927 by Mrs. J. R. Fraser for the furtherance of research in the laboratory of the Department of Obstetrics and Gynæcology, is of the value of \$1,200 per annum.

The Walter J. Hoare Memorial Scholarship.—A sum of \$5,500 has been donated by the late Dr. Charles W. Hoare, a graduate of McGill University, for Scholarships in Medicine, in memory of his son, Walter J. Hoare, who was killed in the Great War. These Scholarships are open annually to pupils of the Collegiate Institutes of the counties of Essex, Kent and Lambton entering the Faculty of Medicine.

The Dr. J. Francis Williams Fellowship in Medicine and Clinical Medicine of \$500, founded by the late J. Francis Williams, M.D., to be awarded on the result of a special examination open to students of the final year, who have had a high general scholastic standing and who are approved by the heads of the Department of Medicine.

The Dr. J. H. B. Allan Scholarship of \$250, founded by bequest of Mrs. Agnes W. Allan, mother of Dr. J. H. B. Allan, to be awarded to the graduate of this Faculty who shall present the best thesis written during his period of residency in one of the teaching hospitals connected with McGill University.

ITALIAN GOVERNMENT SCHOLARSHIP

A Scholarship entitling the holder to a year of study in Rome (free tuition, free lodging and free board) for the 1935-36 session has been offered to McGill University by the Italian Government. Applications should be made in writing to the Registrar, before the 1st of August, 1935.

REQUIREMENTS FOR THE DEGREE OF M.D., C.M.

- 1. Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty-one years of age and of good moral character.
- 2. He must have fulfilled all of the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for five full sessions of not less than eight months each in this University or in some other university, college or school of Medicine, approved by this University.
- 3. No one shall be permitted to become a candidate for the degree who shall not have attended at least one full session at this University.
- 4. Every candidate for the degree must have passed all of the required examinations in the subjects comprising the Medical course.
- 5. He must have attended during at least three sessions or nine terms the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one hundred beds) approved by this University; and must have acted as clinical clerk for six months in Medicine and six months in Surgery and have fully reported upon at least ten medical and ten surgical cases.
- 6. He must also have attended during two terms the practice of the Maternity Hospital or other lying-in hospital approved by the University, and have acted as assistant in at least twenty cases.
- 7. Every candidate must also have administered anæsthetics, under direction, at least six times, and have assisted at not less than six autopsies.

REQUIREMENTS FOR LICENCE TO PRACTISE

Intending students are reminded that a University degree in Medicine does not in itself confer the rights to practise the profession of medicine. In each Province of Canada and in each one of the United States the right of licensure is vested in a Licensing Body which has its special laws and requirements; in many cases a special standard of general education is insisted upon before beginning the study of medicine. One of the requirements in several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a licence to practise can be obtained.

N.B.—In order that disappointment and loss of time may be avoided, the University requires Canadian students to register with the licensing body of their home province before beginning their medical course.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards, as follows:—

QUEBEC-Dr. J. E. Laberge, 354 St. Catherine Street E., Montreal.

Ontario—Dr. H. Wilberforce Aikens, 566 University Avenue, Toronto, Ont.

New Brunswick—Dr. S. H. McDonald, 56 Colborne Street, Saint John, N.B.

Nova Scotia-Dr. H. L. Scammell, Halifax, N.S.

PRINCE EDWARD ISLAND—Dr. H. D. Johnson, 51 Grafton St., Charlottetown, P.E.I.

Manitoba—Dr. W. G. Campbell, 605 Medical Arts Building, Winnipeg, Man.

ALBERTA-Dr. George R. Johnston, Calgary, Alta.

SASKATCHEWAN-Dr. A. MacG. Young, Saskatoon, Sask.

BRITISH COLUMBIA-Dr. A. P. Proctor, Vancouver, B.C.

The Registrar for Newfoundland is Dr. T. Mitchell, St. John's, Nfld.

DOMINION REGISTRATION

In order to take the examination of the Medical Council of Canada a candidate must have the licence of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board that he holds qualifications accepted and approved of by the Medical Board of that province.

Full information may be obtained by writing to the Registrar, Dr. J. Fenton Argue, 180 Metcalfe Street, Ottawa, Ontario.

GENERAL COUNCIL OF MEDICAL EDUCATION AND REGISTRATION OF GREAT BRITAIN

The entrance requirements in Medicine of this University are accepted by the General Medical Council of Great Britain. Graduates of this University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance on lectures, practical work and clinics are also accepted by the various examining boards in Great Britain.

Detailed information may be obtained from the Registrar, General Council of Medical Education and Registration, 44 Hallam Street, Portland Place, London, W.1, England.

COURSES OF INSTRUCTION

ANATOMY

THE ROBERT REFORD PROFESSOR:—

Assistant Professor:—J. S. Baxter

LECTURERS:—{G. P. MATTHEWS H. E. MACDERMOT

SENIOR DEMONSTRATOR:—D. S. FORSTER

F. D. ACKMAN, E. H. CAYFORD, J. R. DEAN, H. M. ELDER,

DEMONSTRATORS:— A. J. B. HEBERT, J. R. LOCHEAD, S. J. MARTIN, H. G. PRETTY,

J. G. QUACKENBUSH, H. G. Ross, J. C. SUTTON

The Required Courses in Anatomy are given in the first three terms of the Medical Course.

Required Courses

1. Lecture Course in Gross Anatomy.

Three hours weekly through the Autumn, Winter and Spring Terms.

Professor Baxter.

Text-books:—Gray's "Anatomy" (English Edition); Whitnall's "Study of Anatomy."

Reference books:—Quain, Cunningham, Piersol, Keith's "Human Embryology and Morphology," Keith's "Menders of the Maimed," Hilton's "Rest and Pain," Spalteholz Atlas.

2. Laboratory Course in Gross Anatomy.

Eighteen hours weekly during the Autumn, Winter and Spring Terms.

Professor Baxter and Staff.

Practical Manual:-Walmsley.

Group Classes in Osteology are conducted weekly by the Demonstrators throughout this Course.

3. Tutorials: Devoted mainly to the study of surface anatomy and X-ray anatomy.

One hour weekly throughout the session.

Drs. MacDermot and Forster.

Elective Courses

Suitably prepared students who desire to proceed to the Primary Examination of any of the Royal Colleges of Surgeons may be provided with facilities for revision in Anatomy.

The Department provides facilities for advanced work and for revision. The head of the Department should be consulted by those desiring to undertake work of this nature.

HISTOLOGY AND EMBRYOLOGY

PROFESSOR:—J. C. SIMPSON

Assistant Professor—H. E. Rawlinson

Lecturers in Histology:—{D. J. Bowie W. M. Fisk

DEMONSTRATOR IN HISTOLOGY:—J. R. DEAN

1. Histology and Embryology.

Two lectures and six hours of laboratory work per week throughout the session.

Lectures —Mon. and Fri. at 2. Laboratory—Div. A.—Tues. 2--5. Thurs. 9-12. Div. B.—Tues. 9-12. Thurs. 2-5.

Professors Simpson, Rawlinson, and Staff.

Text-books:—Maximow and Bloom, "Histology"; Arey, "Embryology".

Reference books:—Histology, Lewis and Bremer, Jordan, Bailey,
Shaefer; Embryology, Jordan, Simkins, Bailey and Miller.

2. Dental Histology.

A detailed study of the development and structure of the teeth and associated parts.

PHYSIOLOGY

THE JOSEPH MORLEY DRAKE PROFESSOR:—JOHN TAIT
RESEARCH PROFESSOR:—BORIS P. BABKIN
ASSISTANT PROFESSOR:—N. GIBLIN
LECTURER:—S. DWORKIN

Required Courses

1. Introductory Course—Lectures and Demonstrations.

In this course, which is comprehensive rather than detailed, the general principles of the subject are dealt with.

Three hours a week during the first half session, and two hours a week during the second half session.

Text-books:—Bainbridge & Menzies, Best & Taylor, Halliburton, Howell.

Intermediate Course—Lectures, Demonstrations and Laboratory.
 Three lectures, one demonstration and six hours of laboratory work a week. Autumn Term.

The more detailed description of the nervous system and sense organs forms a part of this course. The accompanying laboratory course consists of experiments on surviving parts of the frog and on the human subject.

Laboratory manual:-Sharpey-Schäfer, "Experimental Physiology."

3. Senior Course—Lectures, Demonstrations and Mammalian Laboratory.

During these lectures the survey of the subject for undergraduate medical purposes is completed. The laboratory work accompanying the course involves a more advanced operative and instrumental technique.

Three lectures, one demonstration and six hours of laboratory work a week. Winter Term.

Laboratory manual:—Sherrington, "Mammalian Physiology." Text-books:—Howell, Macleod, Starling.

Elective Courses

4. Lectures on Selected Advanced Topics.

Professors Babkin and Giblin.

During each year a variety of subjects is handled. As these vary from year to year, the titles will be announced at the commencement of the Autumn Term. The lectures are held twice a week throughout the Graduate Faculty teaching session. For elective purposes special parts of the course may be separately attended.

5. Applied Physiology.

This course is designed for second year medical students who are interested in the clinical applications of the physiological knowledge they have obtained from the regular undergraduate courses. One lecture-demonstration per week during the Autumn Term, three hours of advanced laboratory per week during the Winter Term.

Dr. Dworkin.

Courses only for Graduate Students.

- 6. Lectures on Structure and Function......Professor Tait.
- 7. Advanced Laboratory.
- 8. Physiological Colloquium.

PSYCHOLOGY

Professor of Abnormal Psychology:—J. W. Bridges
Assistant Professor of Abnormal Psychology—
K. M. Banham Bridges

Elective Courses

1. Normal and Abnormal Psychology. Psychophysiological standpoint, the relation of abnormal to normal mental life and behaviour, the mechanism of behaviour and the physical basis of consciousness, theories of the unconscious, the motivation of behaviour, association and dissociation; imitation, suggestion, instinct, habit, emotion, memory, intelligence, character, temperament, and their abnormalities. Text-book:—Bridges, J. W., Psychology, Normal and Abnormal.

Two lectures a week. Autumn Term........... Professor J. W. Bridges.

The following are one term courses open to students in the Third, Fourth and Fifth Years and to graduates.

4. Psychology in Industry. The selection of employees, the worker's efficiency, and his adjustment to his task.

BIOCHEMISTRY AND PATHOLOGICAL CHEMISTRY

Professor:—J. B. Collip

Associate Professor:—D. L. Thomson

ASSISTANT PROFESSOR:—HANS SELVE

LECTURERS:—{R. L. KUTZ L. I. PUGSLEY

Lecturers in Pathological Chemistry:—

{ J. S. L. Browne E. H. Mason I. M. Rabinowitch

DEMONSTRATOR: -O. F. DENSTEDT

The Department offers, in addition to the required lecture and laboratory course, an elective course in Endocrinology; other courses are described on pages 115, 396.

1. General Physiological Chemistry:

- (a) Lectures: Monday, Wednesday, Friday at 9.
- (b) Laboratory: Six hours weekly, Monday morning and Thursday afternoon, or Tuesday afternoon and Friday morning.

Text-books:—Bodansky, "Introduction to Physiological Chemistry" (Wiley); Cameron, "Text-Book of Biochemistry" (Macmillan); Cameron and Gilmour, "Biochemistry of Medicine" (Churchill); Wright, "Applied Physiology" (Oxford Univ. Press). A synopsis of the laboratory course is issued by the Department.

This course is given in the Autumn and Winter terms.

2. Endocrinology:

Lectures: Monday, Friday at 2.

Text - book: — Cameron, "Recent Advances in Endocrinology" (Blakiston).

PATHOLOGY

STRATHCONA PROFESSOR:—HORST OERTEL ASSOCIATE PROFESSOR:—L. J. RHEA

ASSISTANT PROFESSOR:-T. R. WAUGH

LECTURER AND DOUGLAS FELLOW IN PATHOLOGY:—W. H. CHASE LECTURER:—J. E. PRITCHARD

LECTURER IN NEUROPATHOLOGY:-W. V. CONE

Assistant Demonstrators:—

D. E. Coburn
M. A. Hickey
S. W. Lippincott
W. d'A. Maycock
R. R. Perreault
D. R. Ross

CURATOR OF MUSEUM:—W. H. CHASE PREPARATOR:—J. GIROUX

Note: Students for the degree of Doctor of Medicine are advised to commence the study of Pathology at the beginning of their clinical instruction, i.e., in the Third Year, and pursue it in the following order:

First: General Pathology, with its laboratory course in general pathological anatomy and histology (Courses A1 and A2).

Second: Special Pathology (Course B1), including the special didactic courses on the diseases of the blood forming organs, the more important ductless glands, and of the nervous system (Courses B2, B3, B4), with the laboratory course in special pathological anatomy and histology (Course B5), and also to attend the demonstrative courses and practical exercises in pathological anatomical methods (Course B6).

It is desirable that students should continue to attend the demonstrative courses and practical exercises in pathological anatomy and choose from the electives throughout the rest of their study. Students may find it advantageous to refresh their minds during their later clinical years in certain parts of General and Special Pathology in which they are interested by returning to the didactic lectures in General and Special Pathology in addition to taking up some of the electives.

A study room has been set aside in the Pathological Institute more particularly for the students of Special Pathology and those under advanced clinical instruction, in which gross and microscopic material illustrative of topics discussed in the didactic lectures are weekly put on exhibition for personal study, at the student's leisure. Museum material may also be requisitioned. This room is open from 9 a.m. to 6 p.m. during the session, and demonstrators will be available for consultation.

Required Courses

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A1. General Pathology and Pathological Anato
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Two lectures (with epidiascope demonstrations) a week.

Autumn Term-Tuesday and Thursday, 4 p.m.

Winter and Spring Terms-Monday and Friday, 4 p.m.

Pathological Institute......Professor Oertel.

B1. Special Pathological Anatomy and Pathogenesis of the Circulatory, Respiratory, Digestive and Renal Systems.

One lecture with epidiascope demonstrations a week.

Autumn Term-Friday, 4 p.m.

Winter and Spring Terms-Wednesday, 4 p.m.

Pathological Institute......Professor Oertel.

B2. Diseases of the Blood Forming Organs.

One lecture a week. Autumn Term-Monday, 4 p.m.

Pathological Institute......Professor Waugh.

B3. Pathological Anatomy of the More Important Ductless Glands.

One lecture a week. Winter Term-Tuesday, 4 p.m.

B4. Pathological Anatomy of the Nervous System.

One lecture a week. Spring Term—Tuesday, 4 p.m.

II. PRACTICAL COURSES.

A2. Laboratory Course in General Pathological Anatomy and Histology (including the methods of microscopic technique and diagnosis with practical exercises in the living animal, in fresh and in hardened tissues). Six hours weekly.

Winter and Spring Terms—Tuesday and Thursday, 2 p.m.

Pathological Institute, Professor Oertel, Dr. Chase and Demonstrators

B5. Laboratory Course in Special Pathological Anatomy and Histology. Four hours weekly.

Winter and Spring Terms-Monday and Friday, 4 p.m.

Pathological Institute.

Professor Waugh, Dr. Chase and Demonstrators.

B6. Demonstrative Course and Practical Exercises in Pathological Anatomical Methods and Diagnosis (including autopsy technique and references to medico-legal practice).

C1. Performance of Autopsies—Group Instruction.

Elective Courses

B7. Special Pathological Anatomy of Bones. Spring Term—Thursday, 4 p.m.

B8. Special Hæmatological Technique.

Lectures and demonstrations on the more important hæmatological methods of examining the blood.

Winter Term—Thursday, 4 p.m.

Pathological Institute......Professor Waugh.

C2. Methods of Post-Mortem Examination (including the methods of anatomical description and protocoling). For advanced students and physicians preparing for medico-legal practice. Time to be arranged.

Operation, (including microscopic diagnosis and interpretation). For advanced students.

Autumn, Winter and Spring Terms-Wednesday, 3 p.m.

BACTERIOLOGY AND IMMUNITY

PROFESSOR:—E. G. D. MURRAY
LECTURERS:—

{FREDERICK SMITH
J. H. GLYNN

DEMONSTRATORS:—

{T. E. ROY
D. H. STARKEY

ASSISTANT DEMONSTRATOR:—R. P. DOW

Required Courses

All lectures and laboratory courses are given in the Department of Bacteriology (Institute of Pathology).

Course 1. Elementary Medical Bacteriology and Immunity.

Thirty lectures and 60 hours practical work. Third Term. Available to medical students on the satisfactory completion of their studies in Anatomy, Physiology, Histology and Biochemistry; also to students in their third year in Arts and Science reading for the B.Sc. Honours in Bacteriology and Graduate Students.

Course 2. Applied Medical Bacteriology and Immunity and the processes of Infectious Diseases.

20 Lectures and 60 hours practical work. First and Second Terms. Available to Medical Students who have completed two years of clinical work.

Course 3. Bacteriology and Immunity for Honours B.Sc. (daily throughout the year; available only for Honours students in their Fourth year). 160 lectures and 852 hours practical work.

(Full details of the courses can be obtained by application to the Registrar.)

Text-books:—Hans Zinsser and G. Bayne-Jones, Textbook of Bacteriology (Appleton); R. Muir and J. Ritchie, Manual of Bacteriology (Oxford University Press); R. T. Hewlett and James McIntosh, Manual of Bacteriology (Churchill); T. J. Mackie and J. E. McCartney, Practical Bacteriology (Livingstone); J. W. Bigger, Handbook of Bacteriology (Bailliere Tindall & Cox); W. H. Park and A. W. Williams, Pathogenic Micro-Organisms (Lea & Febiger); Hans Zinsser, Resistance to Infectious Diseases (Macmillan); W. W. C. Topley and G. S. Wilson, The Principles of Bacteriology and Immunity (Edward Arnold & Co.); W. W. C. Topley, An Outline of Immunity (Arnold); M. Langeron, Precis de Microscopie (Masson & Cie); A. Calmette, L. Negri and A. Boquet, Manuel Technique de Microbiologie et Serologie (Masson & Cie). D. H. Bergey, Manual of Determinative Bacteriology (Williams & Wilkins).

CURRICULUM FOR B.Sc. HONOURS IN BACTERIOLOGY

Prerequisite:—An aggregate standing of high second class must be obtained in the subjects submitted for the First Year.

The Head of the Department should be consulted in selecting subjects to be studied in the Second and Third Years. The following subjects are suggested as suitable for the average student.

Second Year—General Zoology; Organic Chemistry; Histology; Elementary Physical Chemistry; Elementary Physiology; Colloid Chemistry

Third Year—Biochemistry; Physiology; Elementary Medical Bacteriology; General Physiology (Dr. Scarth). In addition Pharmacology and Comparative Anatomy of Vertebrates are optional.

Fourth Year-Bacteriology Course 2.

Students of Medicine who have done sufficiently well in their Medical Bacteriology and in their Medical studies in general will be admitted to Course 3.

PUBLIC HEALTH AND PREVENTIVE MEDICINE

Professor and Director:—A. Grant Fleming
Strathcona Professor of Hygiene:—T. A. Starkey
Assistant Professor:—R. St. J. Macdonald
Assistant Professor of Mental Hygiene:—W. T. B. Mitchell
Assistant Professor of Industrial Hygiene:—Frank G. Pedley
Lecturer in Mental Hygiene:—C. M. Hincks
Demonstrator in Mental Hygiene:—Baruch Silverman
Demonstrator in Industrial Hygiene:—R. Vance Ward

The instruction in Public Health and Preventive Medicine given to the medical undergraduates is designed to meet the requirements of the practitioner in Medicine.

In order that the importance of Public Health and Preventive Medicine may be kept before the student, short courses are given in the First and Second Years. These courses are of an introductory nature and, from a historical background, develop the needs and opportunities for preventive medicine and its social implications.

The Department aims to correlate the teaching of the preventive aspects of medicine with the teaching of other departments in their special field. In addition, those phases of the subject that are not included elsewhere are covered, such as water, milk and food supplies, public health administration, hygiene of the school child, industrial hygiene and mental hygiene.

The course in Mental Hygiene, included in the teaching of the Department of Public Health and Preventive Medicine, attempts to give the student an understanding of what is possible and of what is being done in the way of preventing nervous and mental diseases, delinquency and crime, and social failure. This implies a knowledge of what is normal in the way of behaviour responses at the different stages of the individual development; of how we may recognize and deal with significant deviations from the average response; the factors underlying individual success and failure; the place and the means of introducing mental health principles into home, school, social and industrial situations.

The hygiene of the child of school age includes, for consideration, the chief points of a school health service, its scope, and the duties of the School Medical Officer, a post frequently undertaken by the general practitioner.

Industrial Hygiene deals with the application of the principles of preventive medicine to industry. The various factors which influence the health of work people are discussed, and the means which may be taken to supervise their health and safety are considered.

A health study of the student's home town, or some other place acceptable to the Department, is required before the beginning of the Fifth Year. This study requires individual field work by each student.

Required Courses

Introduction to Public Health and Preventive Medicine.

Spring term-Monday, 4 p.m.

Professors Fleming, Macdonald and Mitchell.

 Public Health Organization and Administration. (Including related community services.)

Spring term-Wednesday, 9 a.m.

Professors Fleming, Macdonald and Dr. Silverman.

3. Mental Hygiene.

Autumn term—Tuesday, 3 p.m......Professor Mitchell.

4. Practice of Preventive Medicine.

Spring term—Monday and Friday, 3 p.m.; Wednesday, 2 p.m. Professors Fleming, Starkey, Macdonald and Pedley.

5. Field Visits, Demonstrations.

Spring term-Wednesday, 3 p.m.

6. Communicable Disease Control.

Autumn term—Thursday, 4 p.m. Professors Fleming and Macdonald.

7. Health Study of a City or Town.

To be submitted during the month of October of the final year. The student is later required to review this study with a member of the staff.

Text-books and Reference books:-

The General Field:—Parkes and Kenwood; Rosenau; Park; Fitzgerald.

Industrial Hygiene:—The Health of the Industrial Worker, Collis and Greenwood; Industrial Health, Hayhurst, Emery and Kober; Industrial Poisons in the United States, Hamilton.

Mental Hygiene:—The Mental Hygiene of Childhood, White. School Hygiene:—The Fundamentals of School Health, Kerr.

PHARMACOLOGY AND THERAPEUTICS

PROFESSOR:—R. L. STEHLE
ASSOCIATE PROFESSOR OF THERAPEUTICS:—D. S. LEWIS
ASSISTANT PROFESSOR OF PHARMACOLOGY:—K. I. MELVILLE
LECTURER IN THERAPEUTICS:—D. GRANT CAMPBELL

Lecturer in Therapeutics and Demonstrator in Pharmacology:—
W. de M. Scriver

LECTURER IN ANÆSTHESIA:—WESLEY BOURNE
DEMONSTRATOR IN PHARMACOLOGY:—J. B. ROSS
ASSISTANT IN PHARMACOLOGY:—H. C. ELLSWORTH

PHARMACOLOGY

The object of the course in pharmacology is to elucidate, as far as knowledge permits, the action of drugs, and thereby lay a sound foundation for drug therapy.

Required Courses

Pharmacology. The action of drugs is considered on the basis of
information derived by means of experimental methods and careful
clinical observation. The chemistry of the drugs studied is emphasized
in order that the student may have a good foundation upon which to
follow future developments of the subject intelligently.

Three lectures a week during the Spring Term supplemented by one conference and one demonstration a week.

The conference groups are limited to four students each.

Drs. Stehle, Melville and Ellsworth.

2. Pharmacological Laboratory. The experiments are chosen to illustrate the lectures of the preceding course.

Two periods (six hours) a week during the Spring Term.

Drs. Stehle, Melville and Ellsworth.

THERAPEUTICS

The teaching of therapeutics will be closely linked with that of medicine. Courses 3, 3a and 4 are intended primarily for the fourth year.

Required Courses

- 3. Therapeutics: Didactic Instruction. A series of approximately 15 lectures on the principles of therapeutics and on the treatment of various diseases for which clinical material is not readily available. These lectures will be given during the Spring Term.
- 3a. Therapeutics: Theatre Lectures. Ten to fifteen clinical lectures to be given in the hospitals during the year in conjunction with the teaching of the Department of Medicine.

Dr. Lewis and Associates.

 Pharmacy and Prescription Writing. Five lectures and five laboratory periods during the Autumn term.

Dr. Scriver.

Text-books in Pharmacology. Cushny, Sollmann, Meyer and Gottlieb, Clark.

Options

Suitably prepared persons may undertake research at any time.

Advanced courses leading to the degrees of M.Sc. or Ph.D. will be arranged to suit individual cases. See page 425.

MEDICINE

PROFESSOR AND DIRECTOR OF THE DEPARTMENT:-JONATHAN C. MEAKINS

Professors:—{Campbell Palmer Howard C. F. Martin

ASSOCIATE PROFESSOR:—A. H. GORDON

Assistant Professors:—

Maude E. Abbott
J. Kaufmann
D. S. Lewis
E. H. Mason
C. F. Moffatt
I. M. Rabinowitch

C. C. Birchard, C. R. Bourne,
E. C. Brooks, G. R. Brow, J. G. Browne,
J. S. L. Browne, J. R. Byers,
Lecturers:—
D. G. Campbell, R. V. Christie,
R. H. M. Hardisty, A. T. Henderson,
J. F. McIntosh, D. W. McKechnie,
W. de M. Scriver

L. J. Adams, W. W. Eakin, Neil Feeney,
A. F. Fowler, C. W. Fullerton,
Keith Gordon, C. R. Joyce, W. R. Kennedy,
H. E. MacDermot, J. F. MacIver,
J. L. D. Mason, D. L. Mendel, E. S. Mills,
Lorne Montgomery, E. V. Murphy,
E. E. Robbins, J. B. Ross,
H. N. Segall, Colin Sutherland

Assistant Demonstrators:—

W. W. Alexander,

Margaret E. B. Cameron,
W. C. Gowdey

PAEDIATRICS

CLINICAL PROFESSOR:—H. B. CUSHING

Lecturers:—

A. Goldbloom, L. Lindsay,
S. Graham Ross, R. R. Struthers,
H. P. Wright

Demonstrators:—

{Jessie Boyd Scriver, R. C. Stewart, W. E. Williams}

Assistant Demonstrators:—

{A. K. Geddes Alan Ross S. J. Usher

PSYCHIATRY

CLINICAL PROFESSOR:—C. A. PORTEOUS

CLINICAL PROFESSOR:—DAVID SLIGHT

Demonstrators:—

B. Silverman

E. C. Menzies

DERMATOLOGY

CLINICAL PROFESSORS:—{P. BURNETT J. F. BURGESS

LECTURER:—A. A. BRUÈRE

DEMONSTRATORS:—{L. P. EREAUX B. USHER

Assistant Demonstrator:—Donald S. Mitchell

CLINICAL THERAPEUTICS

Associate Professor of Therapeutics:—D. S. Lewis

Lecturers in Therapeutics:— $\begin{cases} D. \text{ Grant Campbell } \\ W. \text{ de } M. \text{ Scriver} \end{cases}$

LECTURERS IN PHYSIO-THERAPY:— F. W. HARVEY
NORMAN BROWN

DEMONSTRATOR IN THERAPEUTICS:—J. B. Ross

Foreword on the Courses in Medicine. The object of the following courses is to impart a sound knowledge of the principles of general medicine in the diagnosis and treatment of disease; to afford a knowledge of the technique and, above all, so to train the student that he will be enabled to cultivate the faculty of critical judgment. The mere instruction, of itself, is regarded as but a part of the course, while the personal contact of students and patients throughout the final years is of prime importance.

The close correlation of physiology, anatomy, and biochemistry with clinical medicine is emphasized—not only in the pre-clinical years, but later in hospital and laboratory—thus affording students a modern scientific medical training.

Unusual facilities are afforded by the establishment of a modern medical clinic at the Royal Victoria Hospital. In this institution and at the Montreal General Hospital there are extensive laboratories for the study of disease in all its phases. Excellent clinical facilities are afforded at both these hospitals, as well as by affiliation with other institutions.

The courses in internal medicine and its various branches are so arranged as to give the individual student as much independence as possible in his selection of his instructors and time and place of his required and elective courses. The University lectures and clinical lectures are open to students of all years. The student, therefore, may within wide limits determine the period and scope of his instruction. The final examinations may cover any portion of the realm of internal medicine and its various branches of which the examiners may deem it proper that a graduating student should be cognizant.

Required Courses

- 1. A course of University lectures on Pathological Physiology and general medicine will be given in the autumn, winter, and spring terms, on Monday, Wednesday and Friday mornings, from 9 to 10 o'clock. This course of lectures will cover the field of medicine and will be delivered at the University Medical Building, by Professors Meakins, Howard, and Assistants.
- 1a. Courses of lectures will be given in Psychiatry and Therapeutics on two afternoons a week during the autumn and winter terms.
- 2. Clinical lectures in general medicine. A course of clinical lectures will be delivered throughout the autumn, winter, and spring terms, on two days a week. The exact hour in the different institutions will be announced from time to time. These clinical lectures will be given in the Royal Victoria Hospital and the Montreal General Hospital, by Professors Meakins, Howard, Gordon, and Assistants.
- 3. Clinical lectures in pædiatrics. A course of clinical lectures will be delivered in pædiatrics during the autumn, winter, and spring terms, on one day each week, at the Children's Memorial Hospital, by Professor Cushing and Assistants.
- 4. A course in the technique of physical examination and normal physical signs will be given in the autumn term, two periods a week, from 10.15 to 11.45 a.m., with one clinical lecture per week as a review. This course will be given to groups of students at the Royal Victoria Hospital and the Montreal General Hospital.
- 5. This course will cover physical examination and abnormal physical signs, the methods of history-taking, and systematic description of the various systems in a logical order. Its objective will be to prepare students for subsequent clinical and bedside work. It will be given in the autumn, winter and spring terms, four periods a week of two hours each, from 10.15 to 12.15, to groups of students, at the Royal Victoria Hospital and the Montreal General Hospital.
- 6. A course in clinical microscopy will be given in the autumn term only. There will be two laboratory periods a week, from 2 to 4 p.m., on

Mondays and Fridays, in the Pathological Institute. This course will be organized so as to give instruction and practice in microscopy as applied to clinical medicine.

Doctor Kaufmann and Assistants.

- 7. A course in clinical medicine with case reporting and bedside clinics will be given in the autumn, winter and spring terms, to groups of students at the Royal Victoria Hospital and Montreal General Hospital. Each course will occupy five days a week from 9 a.m. to 3.45 p.m.

 Professors Meakins, Gordon and Assistants.
- 8. A clinical course in pædiatrics will be given during the autumn, winter, and spring terms. This course will have the following divisions:
 - (a) Diseases of the New-Born—Royal Victoria Montreal Maternity Pavilion.
 - (b) Normal Infant-Feeding and Development—Montreal Foundling Hospital.
 - (c) General Pædiatrics—Children's Memorial Hospital, Royal Victoria Hospital, and Montreal General Hospital.
 - (d) A Series of demonstrations to groups of students on the ordinary acute infectious diseases will be given at the Alexandra Hospital.

 Professor Cushing and Assistants.

This course in its divisions will be given to groups of students.

- 9. A clinical course in Mental Medicine will be given in the autumn, winter and spring terms. This course will have the following divisions:
 - (a) Theatre clinics and bedside clinics on neuroses, psychoses and border line cases during the final year at the Royal Victoria and Montreal General Hospitals.

 - (c) A certificate of one week's attendance at a Mental Hospital and the submission of three case reports. The attendance may be at any hospital approved by the department.
- 10. A clinical course in dermatology will be given in the autumn, winter and spring terms of one period a week at the Royal Victoria and Montreal General Hospitals.......................... Drs. Burnett and Burgess.
- 11. A course in clinical therapeutics will be given in the autumn, winter, and spring terms, of one period a week, one and one-half hour's duration, at the Royal Victoria Hospital and the Montreal General Hospital, by Professor Lewis and Dr. D. Grant Campbell.

11a. Physio-Therapy. Three lectures and three periods of group instruction at times to be arranged.

Drs. Lewis, Brown and Harvey.

12. In the student's final year he becomes virtually a member of the Externe Staff of the teaching hospitals. He may elect to be allotted to the various services in the hospital in the capacity of clinical clerk, participating in the keeping of records, diagnosis and treatment of patients in the wards and Out-Patient Department, and the laboratory duties. He will accompany the physicians in their daily rounds, attend autopsies and report on them to his teachers.

Elective Courses

- 13. Physio-Therapy (Practical): A course of lectures and demonstrations dealing more fully with the application of physical methods to the treatment of disease.

 Drs. Brown and Harvey.
- 14. Therapeutics: A series of ten evening lectures on certain special aspects of medical treatment will be offered if a sufficient number apply. These lectures will be given by those having a special interest in the various topics, and will be open to students and graduates.

Elective courses for advanced work are offered in the following subjects: Neurology, psychiatry, dermatology, clinical pathology, cardiology, hæmatology, diseases of the lungs, gastro-intestinal diseases, et cetera. The details of these elective courses will be announced at the beginning of each session.

It will be necessary for each student, in addition to taking the required courses, to choose a certain number of elective courses, the number chosen depending upon which elective courses are taken.

Text and Reference Books

General Medicine:—McLeod, "Physiology and Biochemistry in Modern Medicine"; Lewis, "Clinical Electrocardiography" and "Clinical Disorders of the Heart"; Meakins and Davies, "Respiratory Function in Disease"; Todd, "Clinical Methods"; Flint, "Physical Diagnosis"; Cabot, "Physical Diagnosis"; Thompson, "Elements of Surface Anatomy"; Lusk, "Science of Nutrition"; McLester, "Nutrition and Diet in Health and Disease", Krehl, "Basis of Clinical Symptoms"; Osler's "Practice of Medicine"; Cecil's "Text-book of Medicine"; Nelson's "Loose-Leaf System of Medicine"; Oxford, "Loose-Leaf System of Medicine"; Appleton's "Practitioner's Library of Medicine and Surgery"; Dieulafoy, "The Text-book of Medicine"; Strumpell, "Text-book of Medicine for Students and

Practitioners"; Mackenzie, "Diseases of the Heart"; Purves Stewart, "Diagnosis of Nervous Diseases"; Bassler, "Diseases of the Stomach and Intestines"; "Pharmacopæa of the Teaching Hospitals." Musser, "Internal Medicine."

Padiatrics:—Holt and Howland; Dennet; Feer, Still; Porter and Carter; Morse and Talbot; Alan Brown, H. P. Wright, "Essentials of Infant Feeding."

Psychiatry:—White, "Outlines of Psychiatry"; Kraeplin, "Clinical Psychiatry"; Wimmes Hoisholt, "Psychiatric Neurological Examination Methods"; Jeliffe and White (1923 Ed.), "Diseases of the Nervous System."

Dermatology:—Stellwagon; Walker's Introduction to Dermatology; Hartzell; McLeod; Darier; Campbell; Shamberg; Sutton.

HISTORY OF MEDICINE

PROFESSOR:—SIR ANDREW MACPHAIL

A course of fifteen lectures will be given upon the History of Medicine to inform undergraduates in the Faculty upon the progress of the science. It is the intention to examine the causes which produced the varying conceptions of medicine in times past, rather than burden the student with a narration of facts and a recital of biographies.

NEUROLOGY AND NEUROSURGERY

Professor of Neurology and Neurosurgery:—Wilder Penfield
Clinical Professors of Neurology:—Colin Russel
F. H. MacKay
Assistant Professor of Neurology and Neurosurgery:—
William Cone

Lecturers in Neurology:—

Donald McEachern
J. N. Petersen
A. W. Young
N. Viner

Lecturer in Neurosurgery:—A. R. Elvidge
Demonstrator in Pædiatric Neurology—H. M. Keith
Assistant Demonstrator in Neurosurgery:—Theodore C. Erickson
Assistant Demonstrator in Neuropathology:—W. T. Grant
Assistant Demonstrator in Neurophysiology:—G. Stavraky

RESEARCH FELLOWS IN NEUROLOGY AND NEUROSURGERY

NEUROSURGERY

TARLOV

FRANCIS McNaughton

J. Sanchez Perez

The Department of Neurology and Neurosurgery co-operates intimately with the Departments of Medicine and Surgery in their regular teaching.

In addition the following elective courses are offered:

1. Case Presentations. Diseases of the Nervous System.

Outpatient Department, Royal Victoria Hospital, Tuesdays at 3.00 p.m.

Dr. Penfield.

2. The Anatomical Basis of Clinical Neurology. Lectures and microscopic demonstrations. Neurological Institute. Dr. Petersen.

SURGERY

PROFESSOR AND DIRECTOR OF THE DEPARTMENT:—
E. W. ARCHIBALD

PROFESSORS:—{A. T. BAZIN E. M. EBERTS

Assistant Professors:—

W. L. Barlow
C. K. P. Henry
F. A. C. Scrimger

LECTURERS:— (F. B. GURD, F. E. MCKENTY, F. J. TEES

LECTURER IN ANÆSTHESIA:—W. B. HOWELL LECTURER IN RADIOLOGY:—W. L. RITCHIE

John Armour, E. B. Chandler, G. A. Fleet,
Guy Johnson, R. R. Fitzgerald, Mark Kaufmann,

DEMONSTRATORS:— L. H. McKim, G. Gavin Miller,
Dudley Ross, A. Stewart, A. L. Wilkie

DEMONSTRATORS IN ANÆSTHESIA:

J. W. ARMSTRONG,
C. C. STEWART

Assistant Demonstrators:—
Howard Dawson, H. M. Elder,
C. A. MacIntosh,
H. Gurth Pretty
Albert Ross, P. G. Silver

UROLOGY

CLINICAL PROFESSORS:— D. W. MACKENZIE
F. S. PATCH
LECTURER:—R. E. POWELL
DEMONSTRATORS:— M. SENG
A. B. HAWTHORNE
ASSISTANT DEMONSTRATOR:—A. B. WALLACE

ORTHOPAEDIC SURGERY

CLINICAL PROFESSORS:—

{W. G. TURNER | J. A. NUTTER | LECTURER:—W. J. PATTERSON | DEMONSTRATOR:—N. T. WILLIAMSON

SURGERY 309

Foreword on the Courses in Surgery. Instruction in Surgery (and in the surgical specialties) is imparted in the form of didactic lectures, theatre clinics, ward and out-patient teaching.

The didactic lectures are not designed to cover the whole field of general and special surgery, but rather to present the principles of the more important surgical diseases and injuries. Surgery as a whole must be studied in the recommended text books. The early lectures of this course, being introductory, are offered particularly to students who are beginning their clinical work (7th term). They deal with the fundamental principles of inflammation, wound healing, new growths and congenital abnormalities.

The theatre clinics in both hospitals will demonstrate, in so far as is possible, the whole field of general surgery and the surgical specialties. In the earlier terms instruction will be given in the commoner ailments of general surgery, while during the later periods the special subjects of orthopædics, genito-urinary-surgery, neuro-surgery and thoracic surgery will be given a due proportion of the time.

In the wards and out-patient departments, instruction can be given to smaller groups. In these classes one may more readily differentiate elementary instruction from that given to more advanced students. In other words, to the junior group are taught the principles of careful history taking, of physical examination and of accurate observation. Later comes instruction in minor surgery, the dressing of wounds, bandaging and the application of splints; while to the advanced students is demonstrated major surgery from selected cases in the wards and operating theatre. Such advanced students are given patients in rotation and become ward dressers. The specific duty is laid upon them of recording the case histories, making all necessary examinations and laboratory tests, and of assisting at operations. Group teaching at the bed-side, and ward rounds are added to their training, and they are given all the privileges of an externe of the surgical service.

Required Courses

1. Didactic Lectures.

2. Theatre Clinics.

Twice weekly throughout the session, 12.45 p.m., at both general hospitals.

These clinics are open to all students from the seventh term onwards.

Professors Archibald and Bazin and Staff.

3. Ward and Out-Patient Instruction.

Four times weekly, 10.30 a.m. to 12 noon, in groups to be arranged in both general hospitals.

Independent ward work can be done by those to whom cases are allotted at any time during the day excepting the meal and visiting hours.

4. Surgical Specialties.

The surgical specialties are taught in the later periods, to some extent in didactic lectures and theatre clinics, but chiefly in the wards and out-patient departments.

5. Anæsthesia.

Didactic lectures and laboratory demonstrations of anæsthesia are given by the Department of Pharmacology and Therapeutics to the students of the earlier clinical years, while practical instruction in the administration of anæsthetics is given in the hospital to the more advanced students. Every student is obliged to furnish a certificate of having given at least six anæsthetics under supervision.

Text-books:-

- 1. General Surgery: John Homans, "A Text-book of Surgery;" Choyce, C. C., "A System of Surgery"; Thomson and Miles, "Manual of Surgery"; Gask and Wilson, "Surgery"; Hamilton Bailey, "Demonstrations of Physical Signs in Clinical Surgery."
- 2. Emergency Surgery: Sluss, John W., "Manual of Emergency Surgery."
- 3. Surgical Anatomy: McGregor, "Synopsis of Surgical Anatomy;" Treves, "Surgical Applied Anatomy."
- 4. Fractures: Scudder, Charles L., "Treatment of Fractures"; Wilson and Cochrane, "Fractures and Dislocations."
- 5. Case Reporting: White, J. Renfrew, "The Clinical Examination of Surgical Cases."
- Urology: Keyes' Urology, Mackenzie, "Surgery of the Bladder" (Oxford Press).

Collateral Reading: Hinman, The Principles and Practice of Urology; Cabot, Modern Urology; Lewis, System of Surgery, vols. 8-9; Eisendrath and Rolnick, Urology; Young, Urology; Stokes, Modern Clinic Syphilology.

7. Orthopædic Surgery: Whitman's "Orthopædic Surgery"; Fraser, "Tuberculosis of Bones and Joints of Children"; Tubby and Jones, "Surgery of Paralysis"; Jones, "Orthopædic Surgery of Injuries"; Jones and Lovett, "Orthopædic Surgery."

OBSTETRICS AND GYNAECOLOGY

PROFESSOR AND CHAIRMAN:-J. R. FRASER

CLINICAL PROFESSORS:—

{H. C. BURGESS

J. W. DUNCAN

J. R. GOODALL

LECTURER: -W. A. G. BAULD

A. D. CAMPBELL
DOUGLAS GURD
G, C. MELHADO
IVAN PATRICK
ELEANOR PERCIVAL

CLARA LAW FELLOW AND DEMONSTRATOR:-P. J. KEARNS

Assistant Demonstrators:— $\begin{cases} \text{Stewart Henry} \\ \text{N. W. Philpott} \\ \text{C. V. Ward} \end{cases}$

The entire course is arranged on the basis of imparting a practical knowledge of Obstetrics, Gynæcology and the Care of the New-born. Throughout all trimesters the value of intimate contact with the patient in the normal and the pathological state is stressed.

The privilege of serving as an interne in the hospital for two weeks treating the patients from the time of delivery till discharge from hospital is an ideal arrangement. Each student serves in the ante-natal clinics in the city.

OBSTETRICS

Required Courses

An introductory course of thirty lectures on the fundamental principles
of the subject dealing with the Anatomy, Embryology, Physiology
and Pathology of the Pelvic Organs.

The Medical School. Three times a week-Spring Term.

Professor Fraser.

Clinical instruction during the year in the Royal Victoria Montreal
Maternity Pavilion, including the conduct of labor and the puerperium in case room and wards, together with ante-natal care in the
out-patient department.

Autumn, Winter and Spring Terms.

 Special courses in obstetrical palpation and on the mannikin daily throughout the session with the aid of models, diagrams and lantern slides.
 Autumn, Winter and Spring Terms. Clinical conference once weekly in the theatre throughout the year for the entire class, where living cases are presented illustrating the more important obstetrical conditions.

Autumn, Winter and Spring Terms.

Group Instruction. The teaching in the final year is conducted entirely by senior teachers.

Small groups of students are instructed in the Wards, Case Rooms and Out-patient Department in methods of examination, problems of delivery and the principles of treatment.

- 6. Lecture Demonstrations in the theatre are held daily during each term on the following subjects:—
 - A. Normal Labor Dr. Melhado.

 - C. Hæmorrhages of Pregnancy. Labor and the Puerperium.
- 7. Care of the New-born. Drs. Ross & Struthers.

 The clinical demonstration once weekly throughout the year by the

Pædiatrician in charge of the New-born, is intended to provide a clear and concise survey of the physiology and pathology of the New-born. Particular emphasis is laid on infant feeding and neonatal disease.

8. The Staff Conference held once a week is arranged to give a complete account of the work of the hospital.

NOTE: Rooms are provided in the new pavilion where the students may reside, in groups of six, for a period of two weeks. During his period of interneship the student will under supervision deliver patients both in hospital and at their homes, and will undertake the medical care of mother and child during the puerperium.

GYNAECOLOGY

- 1. Theatre clinics and bedside instruction in the Royal Victoria and Montreal General Hospitals. Professor Fraser, Dr. Campbell and Staff.
 - 2. A special course on Gynæcological Pathology Dr. P. J. Kearns.
- Methods of Gynæcological examination, diagnosis and treatment in the outdoor departments.
- 4. A special course of instruction, once a week, throughout the year in the cancer clinic on methods of diagnosis and treatment of cancer, dealing especially with Radium and X-Ray......Dr Bauld and Staff.

Text and Reference Books

Obstetrics

(1). De Lee	Principles and Practice of Obstetrics.
(2). Williams	Text book on Obstetrics.
(3). Ten Teachers	Midwifery
(4). Harper	Clinical Obstetrics.
(5). Bourne	Synopsis of Midwifery and Gynæcology.
(6). Johnson, R. W.	Text book of Midwifery.
(7). Bland	Practice of Obstetrics.
(8). Miller, J.	Manual of Obstetrics.

Gynæcology

(9). Appleton

(10). Peterson

(1).	Graves	Text book of Gynæcology.
(2).	Curtis	Text book of Gynæcology and System of
		Gynæcology and Obstetrics.
(3).	Ten Teachers	
(4).	Monroe Kerr	Gynæcology.
(5).	Blair Bell	Principles of Gynæcology.
(6).	Kelly, Howard	Text book of Gynæcology.
(7).	Goodall	Puerperal Infection.
(8).	Crossen	Gynæcology.

Obstetrical and Gynæcological Monographs. Demonstration Course in Obstetrics.

OPHTHALMOLOGY

PROFESSOR:—W. GORDON M. BYERS

CLINICAL PROFESSORS:—

S. H. McKee

F. T. Tooke

Demonstrators:—

A. G. McAuley

J. A. MacMillan

Assistant Demonstrators:—

A. Bramley-Moore

Stuart Ramsey

J. Rosenbaum

The undergraduate work in Ophthalmology, which is designed to meet the needs of a well-trained general practitioner, embraces the following courses:—

1. Routine examination of the eye.

In this work the class in small groups is drilled in the various tests in the routine examination of the eye, every effort being made to demonstrate methods which, though simple, are adequate and call for the minimum outlay for equipment. Instruction in the use of the ophthalmoscope and familiarization with the appearance of the normal fundus of the eye are an important feature of this preliminary course.

Five hours......Professors Byers and members of the Staff.

2. Lecture demonstrations.

This course, variously illustrated, covers the general principles and the systematic side of the subject. It has been designed to furnish a background of essential concepts for the clinical work of the Fifth Year.

Ten hours......Professor Byers.

3. Clinical Ophthalmology.

In the Final Year, the entire available time is devoted to an intensive study of the ocular problems that are of greatest moment in general practice—the external diseases of the eye, and the main ophthalmoscopic findings in systemic disorders and affections of the nervous system; with practical lessons in ophthalmic nursing and first aid. This work is conducted in the ophthalmic clinics and wards of the Montreal General and Royal Victoria Hospitals.

Professors Byers, McKee, Tooke and Staff.

Text-books:-Parsons, May, Swanzy, De Schweinitz, Fuchs.

OTO-LARYNGOLOGY

LECTURERS:—{D. H. BALLON G. E. HODGE

M. O. HUTCHISON
W. J. McNally
B. F. MacNaughton
J. E. Tremble
R. P. Wright

Instruction in Oto-Laryngology is given to students of the third, fourth and fifth years and is designed to meet the needs of the general practitioner.

The clinical courses are carried on in the wards and out-patient departments of the Montreal General and the Royal Victoria Hospitals, where the large clinics afford the students ample opportunity of receiving practical instruction. In these two hospitals there are about fifty beds set apart for this specialty.

The practical work is conducted in small groups so that personal instruction and supervision are given to each student.

Third Year:

An introductory course of five demonstrations is given to students of the third year. These demonstrations deal with the normal anatomy of the ear, nose, throat, and with methods of examination. An opportunity is also afforded of studying reentgenograms of normal and pathological nasal accessory sinuses and mastoids.

Fourth Year:

Five practical demonstrations are given on the common pathological conditions of the ear, nose, and throat.

Lecture Course:

Ten practical illustrated lectures are given to the whole class. Special emphasis is laid on those surgical procedures which the general practitioner should be capable of performing.

Instruction will be given on the practical value of the bronchoscope in the diagnosis and treatment of diseases of the tracheo-bronchial tree and the œsophagus.

Professor—

Ten clinical demonstrations are given in the out-patient departments and wards of the hospitals. The students are expected to examine the patients and report on them. Differential diagnosis and treatment is stressed.

Text and Reference Books:—Sir St. Clair Thomson: Diseases of the Nose and Throat; Turner A. Logan: Diseases of the Nose, Throat and Ear; Chevalier Jackson and G. M. Coates: The Nose, Throat and Ear and Their Diseases; Philip O. Kerrison: Diseases of the Ear; Chevalier Jackson: Bronchoscopy, Oesophagoscopy and Gastroscopy; D. H. Ballon: Chapters on Bronchoscopy and Oesophagoscopy in Surgical Diseases of the Chest by Evarts A. Graham, J. J. Singer, Harry C. Ballon.

GRADUATE INSTRUCTION

- 1. Any graduate who so desires may attend any of the regular undergraduate courses. This opportunity frequently appeals to many of our graduates, who find in this plan a means of bringing their knowledge of medicine up to date.
- 2. Special graduate work is offered in every department, both in the laboratories and in the clinics, at any period during the year, provided the graduate is willing to assign himself for serious work to one service. Application for this privilege should be made to the Dean or to the Head of the Department in which the graduate desires to occupy himself.

Vide under heading of "Departments of Physiology, Pathology, Anatomy, Hygiene, etc."

3. Course for Diploma of Public Health: This course is specially designed as a thorough training for medical men undertaking the duties of a Medical Officer of Health.

The duration of the course is at least eight months (October 1st to May 31st).

The curriculum is as follows:-

- (a) A course of lectures dealing in a comprehensive manner with the general principles of public health and preventive medicine.
- (b) Bacteriology—a full practical course in general bacteriology, with special application to public health.
- (c) (1) Sanitary Chemistry. Examination of air, water and water supplies in general, the commoner foods and beverages, sewage and sewage effluents, etc.; chemical investigations connected with trades and occupations; (2) Physics. General principles only in their application to hygiene.
- (d) Practical public health work. An extended course under a M.O.H., affording facilities for instruction in public health relating to housing, factories, work-shops and industrial establishments, schools, waterworks, sewage plants, refuse distribution, abattoirs, dairies and milk stations, welfare centres, etc.
- (e) Public health legislation and administration. Statutes and bylaws relating to public health and the powers of health authorities; administration of the office of a Medical Officer of Health.
- (f) Vital statistics. Calculation and tabulations of returns of births, marriages and deaths and diseases.

(g) Meteorology and climatology; geographical and topographical distribution of disease.

Candidates for this diploma may claim exemption in any of the above subjects on presentation of adequate certificates.

Qualification for the diploma includes a knowledge of communicable diseases, of child hygiene and mental hygiene, the use of meteorological, hygienic and sanitary apparatus.

The successful candidate must further know the appearance of healthy and diseased tissues of animals, and their microscopic examination.

Finally, he must show a capacity to formulate a report on public health conditions in an actual locality and make annual and other reports as required by Officers of Health.

These examinations are written, oral and practical.

The fee for the course is \$150.00 for British Subjects and \$200.00 for non-British Subjects.

4. Special Courses. Graduates desiring instruction in any special branch of Public Health and Preventive Medicine, such as School Health Services and Industrial Hygiene, should apply to the Head of the Department. Courses will be arranged, suitable for the applicants, in order that they may receive full benefit from the time devoted to the course.

BUILDINGS

THE MEDICAL BUILDING

This Building, erected in 1911, at a cost of over \$600,000, contains the Offices of Administration, the Medical Library (with its 48,000 volumes, its Reading Rooms and their complete set of technical journals), the Departments of Anatomy, Histology, Hygiene, Pharmacy, and the magnificent Museums of Anatomy, Pathology and Ethnology. The Faculty of Dentistry is also in this Building.

The Department of Anatomy, with its commodious laboratories, its dissecting room, with 50 tables, and its very unusual abundance of material, affords unequalled facilities for students. Moreover, graduates who desire opportunities for research are adequately cared for in this Department.

The Department of Histology and Embryology, too, has excellent facilities, with laboratory space for 120 students, and smaller laboratories for research.

THE BIOLOGICAL BUILDING

Completed in 1922 at a cost of over \$500,000, this edifice was erected on the site of the original Medical Building, which was partly destroyed by fire in 1907. This extensive structure—184 feet by 60 feet—houses on each of its floors laboratories devoted respectively to Botany, Zoology, Biochemistry, Physiology and Pharmacology.

Each of these departments is amply provided with laboratories and units for undergraduate teaching and graduate research.

Adjacent to and connected with the Biological Building is the Laboratory for Experimental Surgery. This two-storey building contains two operating units with sterilization and anæsthetic rooms, as well as commodious quarters for the storage of animals and their care during convalescence. The equipment is very complete and includes a refrigerator plant and kitchen.

THE PATHOLOGICAL INSTITUTE

This Building, which was opened for use in October, 1924, and which is connected with the Royal Victoria Hospital by a tunnel, is situated on the Northeast corner of University Street and Pine Avenue, adjacent to the Medical Building. It provides accommodation for the departments of Pathology, Bacteriology and Medical Jurisprudence, and includes a Pathological Museum and museum workshops. It combines under one roof, quarters for teaching and research in these departments, both for the

University and for the Royal Victoria Hospital. From the latter is drawn chiefly its material. It was constructed at a cost of \$460,000; is of Montreal limestone; its main front is 242 feet long; the north end is 77 feet wide and the south end 60 feet. It provides ample facilities and equipment for instruction of students, and the research work of the Staff.

THE MONTREAL NEUROLOGICAL INSTITUTE

This eight-storey building, which is situated on University ground adjacent to the Pathological Institute and the Royal Victoria Hospital, was opened in 1934. Unsurpassed in its equipment and facilities for research, as well as the medical and surgical treatment of disorders of the nervous system, it houses the University Department of Neurology and Neuro-surgery, which conducts both undergraduate and graduate teaching in the Faculty of Medicine. In addition to wards, operating rooms, laboratories, etc., the building provides complete residential accommodation for eight fellows.

HOSPITALS

Few medical schools on this Continent offer better facilities than those enjoyed by the students of McGill University. Ideal academic and topographical conditions exist for the teaching of scientific and practical medicine.

The Medical School is on the University Campus, and is thus in juxtaposition to the scientific laboratories of the University and to the largest teaching hospital in the city. Co-operation with the scientific and cultural departments of the University, as well as with clinical facilities, is thus made easy.

The following hospitals and institutions are at the disposal of the teaching staff and students for clinical and pathological study:—

Royal Victoria Hospital.

Montreal General Hospital.
Children's Memorial Hospital.
Foundling Hospital.
Alexandra Hospital for Infectious Diseases.
Verdun Protestant Hospital.
Royal Edward Institute for Tuberculosis.
The Royal Victoria Montreal Maternity Hospital.

The staffs of these institutions are appointed with the co-operation of McGill University and, for the most part, are teachers in the Medical School. These affiliated hospitals contain over 2,000 beds.

The Royal Victoria Hospital, in juxtaposition to the University building, is a general hospital for acute diseases and contains 680 beds. During 1934 it cared for 13,307 cases, while in its outdoor department 95,285 cases were treated. Many new additions have been made to the Hospital. A modern University Medical Clinic was established in 1924.

There were 222 post-mortems.

The number of resident physicians is 38.

The Royal Victoria-Montreal Maternity Pavilion, with 200 beds for obstetrical and gynæcological cases, was opened in June, 1926. In this institution there are 100 teaching beds and an organized outpatient service which is of the greatest benefit to the undergraduate student. During the year 1934 the obstetrical service cared for 1,962 confinements in the Hospital and 500 in the Out-patient Service, a total of 2,462. In the gynæcological section, 1,463 cases were admitted during the year.

There are nine resident physicians.

The Montreal General Hospital is a general hospital for the treatment of acute diseases and contains 397 beds. In 1934 there were 7,345 admissions to its wards. The large, reconstructed out-patient department, probably the finest in this country, received last year 163,718 visits. Many modern additions to the original buildings have been made. There is also a large biochemical laboratory, completely equipped for the investigation of the metabolic aspects of disease.

There were 192 post-mortems during the year.

The number of resident physicians is 48.

The Dental Clinic of the University, completed in 1921, has 50 dental chairs with a large and varied clientele.

The Western Division of the Montreal General Hospital—The Western General Hospital. A hospital for the treatment of acute diseases, with 85 teaching beds. It is hoped that this hospital will soon afford additional opportunities for teaching. The post-mortem and surgical material is now being used for teaching. During the year 1934 there were 2,008 admissions to the wards and 71,777 patients were treated in the outpatient department.

There were 30 autopsies during the year.

The number of resident physicians is 7.

1

The Children's Memorial Hospital has 335 public beds, and, in 1934, admitted 3,517 patients. The attendance at its out-door department totalled 33,267 patients. This hospital, while primarily for orthopædic cases, now admits all varieties of patients, and enables the students to get a broad conception of pædiatrics. Of special interest are the newly-built wards with cubicles, the Departments of Remedial Gymnastics, the Openair Pavilion, and the well-equipped out-patient service.

There were 110 autopsies during the year.

The number of resident physicians is 13.

A summer course, lasting four weeks, has for several years enabled students and practitioners to become acquainted with many of the most important phases of modern pædiatrics.

The Montreal Foundling and Baby Hospital has been taken over by the Children's Memorial Hospital, and the two institutions will be used as before for the teaching of students. The Foundling Hospital affords a large amount of clinical material and gives special facilities for instruction in child welfare and infant feeding. There are 75 beds.

The Alexandra Hospital for Infectious Diseases, opened in 1906, with modern wards, cubicles and equipment, is regularly attended by students, who receive demonstrations on the essential features of the exanthemata.

There are 155 beds, and, in 1934, 1,559 patients were admitted to the hospital. There were 35 autopsies.

The number of resident physicians is 4.

The Verdun Protestant Hospital has 1,100 beds. It serves to instruct students in the diagnosis and treatment of the psychoses. Students are taken about the wards in groups, and are required to report on cases and discuss the general problems of psychiatry with the teachers. Occupational therapy is emphasized.

The Royal Edward Institute in its new building on Pine Avenue has space for 25 beds, with operating room, X-Ray equipment and modern facilities for the examination of patients, is essentially a dispensary for tuberculosis and offers adequate material for teaching students, in groups, the essential features of pulmonary disease.

The Royal Victoria Hospital is adjacent to the Medical School, while the other affiliated hospitals are within easy access. These hospitals, with their large clinical and laboratory facilities, and their close affiliation with the University, offer excellent opportunities for the study of disease in all its phases.

LIBRARY

HONORARY LIBRARIAN: - DR. C. F. WYLDE

The Library occupies the central part of the Medical Building, the whole front of the second and third floors, as well as a portion of the first floor. On the third floor is the magnificent reading room, 76 x 24 feet, exceptionally well lighted, and capable of accommodating seventy-five readers. On this floor also are the journal room and private office. The second floor contains the stack room, the book stacks at present containing about 49,000 volumes, as well as eight sections of unbound material in cases, such as hospital reports, university calendars, government publications and theses and having a total capacity of sixty thousand volumes; also three study rooms. On the first floor are the cataloguing rooms, offices and pamphlet room.

A special feature of the Library is the journal collection, and every effort is being made to complete this section as far as possible, and thus to increase the value of the reference department of the Library. Through the generosity of interested friends there is also a valuable collection of approximately one thousand volumes of early works on the History of Medicine, dating from the fifteenth century. These can be consulted at the Library. The Library is also very rich in ophthalmological material, largely through the interest of Dr. Casey A. Wood, who not only has given his private collection, but has continued each year to send many valuable books and periodicals. Through his generosity, in a short time the library will have one of the most complete ophthalmological periodical collections on this continent.

A complete journal collection is listed in the Catalogue of Scientific Periodicals in Canadian Libraries, and also in the Union List of Serials published by the W. H. Wilson Company.

The Library is for the use of the members of the Teaching Staff, graduates of the Medical Faculty of the University, undergraduate students in the Faculty, graduates from other colleges showing proper credentials, and registered nurses. It is felt that graduates living at a distance are not aware of the fact that books may be borrowed from the Library on payment of carriage both ways.

The Library is closed on Sundays, but is otherwise open daily during term from 9 a.m. to 6.30 p.m., and 7.30 to 9.30 p.m., except Saturdays, when it is closed at 5 p.m. After June 1st it is open from 9 a.m. to 5 p.m.; Saturdays, 9 a.m. to 1 p.m. During July and August it is closed on Saturdays.

THE OSLER LIBRARY

LIBRARIAN:-W. W. FRANCIS

This special library of the history of medicine and science, collected by Sir William Osler with a view to its educational value, was bequeathed by him to his Alma Mater. The Osler Library, which comprises about 8,500 volumes, occupies a large room, beautifully equipped, on the third floor, convenient to the Medical Library. The collection is rich in early editions of the older literature, as well as in modern historical works; and its importance and usefulness are much enhanced by the donor's annotated catalogue. Planned and prepared by Osler along very unusual lines, the catalogue has been completed, indexed, and printed since his death ("Bibliotheca Osleriana," Clarendon Press, Oxford, 1929, xxxvi, 785 pp.).

The books are classified in eight sections, of which the first, the "Bibliotheca Prima," presents a bibliographical outline of the evolution of science (including medicine), and was planned to contain the essential literature arranged chronologically under the names of the greatest contributors to the advancement of knowledge. Another feature of the Library is its Incunabula, a valuable collection of 136 books printed in the fifteenth century.

The Osler Library is open daily, except Sunday, for the use of undergraduates and all who are interested. The Librarian will be glad to give advice or informal instruction to students. Accommodation is provided for readers. The books belonging to the original collection may not be borrowed or removed from the Library, but this restriction does not apply to the current works on the history and biography of medicine and science which are constantly being added.

MEDICAL SOCIETIES

1. THE McGILL UNDERGRADUATE MEDICAL SOCIETY

The Society is composed of the registered students of the Faculty. Its purpose is:—

- (1) To transact all matters of business connected with the undergraduate body.
 - (2) To stimulate interest along medical lines.
 - (3) To assist students to express themselves in public with facility.
- (4) To provide an enjoyable social evening, at the same time developing a strong spirit of faculty loyalty.

Meetings are held every alternate Monday, at which addresses are given by prominent professional men, medical and otherwise. Case reports are also read and discussed by the members themselves.

The annual meeting is the last meeting in the spring, when the following officers are installed: Hon. President (elected from the Faculty), President, Vice-President, Secretary, Assistant Secretary, Treasurer, Reporter and three Councillors (of whom two are chosen from the Faculty). These officers are elected by ballot one week before the annual meeting.

A prize competition has been established in the senior and junior subjects. The senior are open to all to write upon, while only students of the first three years are allowed to compete in junior subjects. The papers are examined by a board selected by the Faculty, and two prizes are awarded in each division. The papers are subject to the call of the Executive on December 1st, and must be handed in for examination before February 1st. The Society also controls the Students' Reading Room. English and American journals, as well as the leading daily newspapers, are kept on file.

2. ALPHA OMEGA ALPHA HONORARY MEDICAL SOCIETY

This Society, which has Chapters in the various Medical Colleges of Canada and the United States, established a subsidiary branch at McGill University in 1912.

There are honorary, graduate and undergraduate members. Honorary members are selected from such teachers as are more particularly interested in the advancement of scientific medicine. Undergraduate members are selected from those students who, during their earlier academic career, have shown promise of development and have attained honour rank. They are eligible for election in the Fourth and Fifth years.

Meetings are held every month throughout the session, and papers are read by honorary and active members, as well as by graduates. Once during the year an open meeting is addressed by a visitor who is prominent in the medical world.

3. THE OSLER SOCIETY

The Osler Society was founded in the Spring of 1921 by a number of undergraduates in Medicine, its object being to perpetuate the memory and teachings of Sir William Osler by the reading of papers and discussion of topics reflecting his ideals of a liberal medical education. Thus those interested may supplement their clinical and scientific knowledge by the consideration of those topics of medicine which are of historical and literary significance.

The membership includes men from each class in the Faculty. Several professors have shown an active interest in the Society and have added a more mature note to the discussions. Each year an Honorary President has been elected from this older group.

McGill University has been greatly enriched by the gift of the Osler Library, bequeathed by Sir William. Members of the Society are fortunate in having ready access to this unique source of original material, comprising as it does a rare and valuable collection of some 8,000 volumes and pamphlets devoted to the history of science and medicine from the time of Hippocrates.

FACULTY OF DENTISTRY

FOUNDATION AND HISTORY

The Dental Department of McGill University was established as a Department of the Faculty of Medicine in the autumn of 1903. At that time the didactic teaching and laboratory work were carried on in the lecture rooms and laboratories of the Medical Building, clinical instruction being given at the Dental Infirmary, a clinic conducted by the Dental Association of the Province of Quebec. This arrangement fulfilled the requirements of the Department for a time, but soon the need of separate quarters for didactic and laboratory instruction and also of improved clinical facilities was felt. These have been supplied, first, by the assignment to the Department of a portion of the east wing of the Medical Building, and, second, by the establishment of a clinic at the Montreal General Hospital.

The new quarters of the Faculty occupy the northern half of the first floor of the east wing of the Medical Building. Here are provided all the necessary lecture rooms and laboratories, as well as private rooms for the members of the staff. The laboratories are equipped with the latest apparatus and appliances for teaching practical dental operations.

The clinic at the Montreal General Hospital was established in connection with the out-patient department of the Hospital in the early part of the session 1908-09.

The rapid growth of the Faculty, however, soon made necessary the enlargement of the facilities for teaching Clinical Dentistry, and so in 1921 the University, acting conjointly with the Governors of the Montreal General Hospital, thoroughly remodelled the space used for the clinic, and in addition erected a new wing 80 ft. x 36 ft.—the entire wing being occupied by dental chairs and other equipment. This gives to the Faculty a thoroughly equipped dental clinic. In addition to the splendid equipment and facilities provided in the Hospital clinic, students of the Dental Faculty share with the other departments the advantages of the great Hospital with which it is connected, such as a splendid X-ray department and a well-managed pathological department. They have also the privileges of the surgical operating amphitheatre, and the Hospital anæsthetists are always available for operations.

ENTRANCE REQUIREMENTS

Every candidate for admission to the First Year in the Faculty of Dentistry must have completed two full years in the Faculty of Arts of a recognized university, including lectures and laboratory work in Chemistry (Inorganic and Organic), Physics and Biology.

In the case of those who intend to practise in the *Province of Quebec* it is essential that the candidate should take at least the second of these two years in a recognized English University in this Province.

Courses specially designed to meet these requirements are offered in the Faculty of Arts and Science of McGill University, where a student may take the two years of study required, or the second of the two if he has satisfied the requirements of the first by Senior Matriculation, or otherwise.

Particulars of the Junior and Senior Matriculation Examinations are given on pages 70 and 82.

PROVINCIAL REGISTRATION

Intending students are reminded that a University degree in Dentistry does not itself give a right to practise the profession of Dentistry. It is necessary to comply with the Dental laws of the country, state, or province in which it is proposed to begin practice. Each province in Canada at present has special requirements for its licence, and in all of them a certain standard of general education is insisted upon before the study of Dentistry may be begun. Students who intend practising in Canada are advised to register their qualifications in the province in which they intend to practise, before they begin their University course.

The following is a list of the Registrars of the Dental Boards of the several Canadian provinces. Students are advised to write for information whenever they are in doubt as to the regulations of any province.

- *Ontario-W. E. Wilmott, Toronto.
- *Nova Scotia—Geo. K. Thompson, D.D.S., Halifax.
- *New Brunswick-J. KERR HIGGINS, D.D.S., St. John.
- *Prince Edward Island—J. F. LEBBETTER, D.D.S., Charlottetown.
- *Manitoba—J. F. Morrison, D.D.S,. 403 Medical Arts Bldg., Winnipeg.
- *Alberta—A. E. Hennigar, D.D.S., Herald Building, Calgary, Alta.
- *Saskatchewan-L. J. D. Faskin, Regina.

Quebec-Dr. Denis Forest, 3632 Park Ave., Montreal.

British Columbia-W. J. LEA, 1320 Medical Dental Building, Vancouver.

^{*}Members of the Dominion Dental Council.

DOMINION DENTAL COUNCIL OF CANADA

Seven of the nine Canadian provinces (i.e., all but Quebec and British Columbia) have entered into an agreement whereby the holder of a licence granted by the Dominion Dental Council may practise in any of the subscribing provinces. In order to obtain this licence a candidate must: (1) hold a matriculation certificate of the proper standard; (2) pass the examination set by the council, and (3) pay the local provincial registration fee.

The Secretary of the Dominion Dental Council is Major W. D. Cowan, M.P., Regina, Sask.

MEDICAL EXAMINATION, VACCINATION, ETC.

See page 95.

REGISTRATION

Students in Dentistry register at the Office of the Registrar between Wednesday, September 11th and Tuesday, September 17th. Students registering after that date are required to pay a late fee. This late fee is not refunded except for satisfactory reasons and by authorization of the Faculty. No students are admitted after the 8th of October.

FEES

Tuition Fees

1.	Annual undergraduate fee for British* students	\$310.00
	By instalments: Each of two instalments	157.50
	Annual undergraduate fee for Non-British* students	350.00
	By instalments: Each of two instalments	177.50

- Qualified partial students are admitted to one or more courses on payment of special fees. For further particulars consult the Dean's Office.
- A Dental Cabinet may be rented during the academic year for a fee of \$10.

Other University Fees

4.	Late registration, after Sept. 17th	\$ 5.00
	Late registration, after Sept. 24th	10.00
	Supplemental Examinations, per paper	10.00
	Receipts for supplemental examinations must be shown	
	to the Dean's Office before the examination.	
	Conferring degree in absentia	10.00
	Duplicate Diploma	10.00
	Certified copy of record, each	1.00
	Additional copies (at same time)	.50
	Ad eundem fee for students entering from another University	
	in any year above the First	10.00
	Fine for late medical examination (see page 95)5.00 c	or 10.00

 Caution Money. Every student is required to deposit \$10 as caution money to cover damage done to university property. This amount, less deductions, is returned at the end of the session.

^{*}Domicile will in general determine whether a student pays the British or the Non-British fees. A student who is uncertain which rate he will be required to pay should consult the Registrar.

Students' Activities

- 6. A sessional fee of \$17 is payable by all men undergraduates and \$12 by all women undergraduates, for the support of student organizations, for the rinks and tennis courts, and for admission to all home games under the control of the Athletic Board.
- 7. Partial students pay \$3 for athletics and athletic grounds. If they desire such of the privileges of Section 6 as are open to them, an additional \$9.50 is charged for men students and \$5.50 for vomen students.

General Regulations

- 8. Fees are due and payable at the Bursar's Office on Wednesday, September 20th, Thursday, September 21st, and Friday, September 22nd, between the hours of 9 a.m. to 1 p.m. and 2.30 to 4 p.m., but they may be paid before the above dates. The second instament of tuition fees is due and payable on February 1st. An additional \$2 is charged for payment after the specified dates.
- 9. Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of Regulation 8.
- 10. Any student who fails to pay his fees within a month o' the prescribed date is suspended until all the fees due have been paid.
- 11. All fees are payable in Canadian currency.

INSTRUMENTS

With the exception of extracting instruments, lathes, and vulcanizers, each student is required to furnish his own instruments and appliances for both laboratory and operating room, and is not permitted to enter the Course until he is thus supplied.

The approximate cost of instruments and supplies for the First and Second Years is \$300, which includes an Anatomical Articulator, and an Engine.

Third Year approximate cost	\$100.00
Fourth Year approximate cost	75.00

All of these instruments and this equipment will be required for office use when the student enters practice and should be regarded as an investment for that purpose rather than a university expense.

A list of the above instruments may be secured at the Dean's Office, and arrangements have been made with local Dental Supply Houses in order that the student may benefit by a special trade discourt.

14/14

UNIVERSITY LOAN FUND

A Student Loan Fund has been established by the University to assist needy students in the upper years of all Faculties. Loans are made only to students with good academic standing.

For further particulars students should consult the Acting Dean.

BURSARIES

Ten bursaries of \$100 each, two for each of the five sessions from 1934-35 to 1938-39 have been given to the university by the Montreal Alumni Club of the Sigma Alpha Mu Fraternity. These bursaries are open to men students in any Faculty. Need and scholarship determine the award. Applications in writing should be made to the Registrar before the end of June.

Three bursaries of \$100 each for the 1935-36 session have been given to the University by the Mount Royal Lodge of Bnai Brith. These bursaries are open to men and women students in any Faculty. Need and scholarship will determine the award. Applications in writing must reach the Registrar before the 30th of June 1935.

MEDALS AND PRIZES

The Montreal Dental Club Gold Medal.—Awarded to the student in the Final Year who stands first in the science and practice of Dentistry. The standing is determined not only by the written and practical examinations at the end of the year, but by the general work of the student during the whole course.

The Lieut.-Governor's Silver Medal.—Awarded to the student in the Final Year who stands highest in the practical work done during the year and at the final examinations.

The Lieut.-Governor's Bronze Medal.—Awarded to the student obtaining the highest marks in the Third Year examinations, in Dental Pathology and Dental Therapeutics.

Final Year Prize.—A prize in books is awarded to the Final Year student who stands second in the class. The standing is determined in a manner similar to that followed in the awarding of the gold medal.

The following prizes are given by The Mount Royal Dental Society:-

Third Year Prize.—Two prizes (first and second), in books, are awarded in the Third Year. The method of determining the winners of these prizes is similar to that adopted in awarding the prizes in the Final Year.

First and Second Year Prizes.—A prize in books is awarded to the student obtaining the highest standing at the sessional examinations.

COURSE FOR THE DEGREE OF D.D.S.*

Candidates for the degree of D.D.S. must complete two years of study in a College or Faculty of Arts, with Physics, Inorganic and Organic Chemistry and Biology as compulsory subjects, before entering upon the four-year course in this Faculty. The curriculum is as follows:—

FIRST YEAR

Anatomy (human) Dental Anatomy Histology, Medical Physiology Metallurgy Prosthetic Technique Operative Technique Histology—Dental

SECOND YEAR

Crown and Bridge Work Operative Technique Orthodontia Prosthetic Technique Bacteriology Biological Chemistry Pharmacology General Pathology

THIRD YEAR

Crown and Bridge Work
Dental History, Ethics and
Office Management
Dental Jurisprudence
Dental Materia Medica and
Therapeutics
Operative Dentistry

Orthodontia Prosthetic Dentistry Dental Radiography General Anæsthesia Dental Surgery Local Anæsthesia Dental Pathology

FOURTH YEAR

Operative Dentistry Orthodontia Prosthetic Dentistry

Oral Surgery Crown and Bridge Work Oral Hygiene

^{*}It should be understood that the programme and regulations regarding courses of study and examinations contained in this calendar hold good for this calendar year only, and that the Faculty, while fully sensible of its obligations towards the students, does not hold itself bound to adhere absolutely, for the whole four years of a student's course, to the conditions here laid down.

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EXAMINATIONS

Frequent oral examinations are held to test the progress of the student, and occasional written examinations are given throughout the session.

A minimum of 50 per cent in each subject is required to pass, and 75 per cent for honours.

All examinations in each year must be passed before a student is allowed to advance to the next.

Candidates who fail at the regular examinations in not more than three subjects of the First, Second or Third Years, may, at the discretion of the Faculty, be allowed to take the supplementary examinations before the beginning of the following session. These examinations are held during the week preceding the regular opening of the session.

Failure in more than three subjects of the First, Second or Third Years at the regular examination excludes the candidate from advancement.

Students who fail in one subject only of the Final Year may, at the discretion of the Faculty, be allowed a supplementary examination in that subject. Should the subject be one in which practical or clinical work is required, the student must furnish a certificate of additional clinical attendance or laboratory work before presenting himself for examination.

Applications for supplemental examinations must be in the hands of the Dean at least three days before the date set for the beginning of the examination, and must be accompanied by a fee of \$10.00 for each subject.

QUALIFICATIONS FOR THE DEGREE

- 1. No one is admitted to the degree of Doctor of Dental Surgery who has not attended lectures for a period of four sessions in the Dental Faculty of this University, or partly in this University and partly in some other approved university, college or school of dentistry.
- 2. Students of other universities, so approved, who may be admitted on production of certificates to a like standing in this University, are required to pass an oral examination in primary subjects, and all examinations in the final subjects in the same manner as students of this University.

No one is permitted to become a candidate for the degree who has not attended at least one full session at this University.

3. Candidates for the final examination must furnish testimonials of attendance on the branches of dental education mentioned on page 327; provided, however, that testimonials equivalent to, though not precisely the same as these, may be presented and accepted.

COURSES OF LECTURES

ANATOMY

THE ROBERT REFORD PROFESSOR:—
PROFESSOR OF HISTOLOGY AND EMBRYOLOGY:—J. C. SIMPSON
ASSISTANT PROFESSOR OF ANATOMY:—JAMES S. BAXTER

Lecturers in Anatomy:—

G. P. Matthews
H. E. MacDermot
Lecturer in Histology:—W. M. Fisk
Senior Demonstrator in Anatomy:—D. S. Forster

F. D. Ackman, E. H. Cayford, J. R. Dean, H. M. Elder, A. J. B. Hebert, J. R. Lochead, S. J. Martin, H. G. Pretty, J. G. Quackenbush, H. G. Ross, J. C. Sutton

The course covers one year, and is planned so that after making a general survey of the whole body, the dental student concentrates his attention on the head and neck. He is thus enabled to study in greater detail those parts which are related to his particular province, and he avoids spending undue time over regions which possess no special educational or professional value for him.

First Year:—The student takes the First Year medical course of three lectures and twelve hours' practical work a week during the first two terms, thus studying the body exclusive of the lower limb.

Histology, Embryology and Dental Histology

First Year:—Two lectures and three laboratory periods per week for the First and Second Terms.

Dental Histology

4 hours per week during the Third Term.

The course includes:-

(1) A survey of the general principles of embryology and of the early stages in the development of the human embryo.

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- (2) A detailed study of the fundamental tissues of the human body.
- (3) A study of the development and microscopic structure of the organs and systems, in which the head and neck and the circulatory, digestive and respiratory systems are considered in detail, whilst the remaining systems are treated in a more general way.

Text-books:—Gray's Practical Anatomy, Walmsley; Histology, Jordan, Noyes, Schafer's Elements, Bailey.

DEPARTMENT OF BACTERIOLOGY

PROFESSOR: -E. G. D. MURRAY

Lecturers:—

{Frederick Smith J. H. Glynn

DEMONSTRATOR: - D. H. STARKEY

All lectures and laboratory courses are given in the Department of Bacteriology (Institute of Pathology).

Course 1.—Elementary Medical Bacteriology and Immunity.

30 lectures and 60 hours Practical Work, supplemented by Tutorial Classes. Third term.—Available to Students of Dentistry on the completion of their studies in Anatomy, Physiology, Histology and Biological Chemistry.

A choice of one of the following books is recommended:

T. J. Mackie & J. E. McCartney: "Practical Bacteriology," published by Livingstone; J. W. Bigger: "Handbook of Bacteriology," published by Bailliere, Tindall & Cox.

PHARMACOLOGY

PROFESSOR:—R. L. STEHLE LECTURER:—K. I. MELVILLE

A course of ten lectures concerned with those phases of pharmacology which are of importance in dentistry, supplemented by five laboratory periods or demonstrations.

Text-books:—Cushny's, Sollmann's or any other standard text.

BIOCHEMISTRY

PROFESSOR:-J. B. COLLIP

ASSOCIATE PROFESSOR:-D. L. THOMSON

A required course of lectures and laboratory exercises, conferences and laboratory work is offered, in which one section of the general field is treated in greater detail. This course is taken along with the medical students.

REQUIRED COURSES

1. Biochemistry—Lecture Course:

This course forms a general introduction to the subject and is divisible into four parts: first, a survey of the chemical nature and physicochemical properties of the foodstuffs and the constituents of living matter; second, an account of the transformations undergone by these substances in digestion and metabolism; third, the principles of the science of nutrition; fourth, an introduction to pathological chemistry.

Text-books:—Bodansky: "Introduction to Physiological Chemistry." Cameron: "A Text-book of Biochemistry."

Reference books:—Peters & van Slyke: "Quantitative Clinical Chemistry," Gortners: "Outlines of Biochemistry," Thomson: "The Life of the Cell," Lusk: "Science of Nutrition."

Monday and Friday at 10, Wednesday and Saturday at 9, during the Autumn and Winter terms,

2. Biochemistry—Laboratory Course:

The exercises will deal with the practical side of the subjects treated in the lecture course, such as the chemical properties of the carbohydrates, fats, and proteins, and the qualitative and quantitative analysis of blood, urine, and other body fluids for their most significant constituents, by volumetric and colorimetric methods. A synopsis of the course is issued by the Department.

Reference books:—Hawk & Bergeim, "Practical Physiological Chemistry"; Folin, "Laboratory Manual of Biological Chemistry."

Six hours a week. Monday, Wednesday and Friday mornings in the Autumn and Winter terms.

14

CROWN AND BRIDGE WORK

LECTURER:—W. C. BUSHELL
DEMONSTRATOR:—P. R. MARCHAND

The course in Crown and Bridgework extends from the third semester of the Freshman year, through the Sophomore, Junior and Senior years.

During the third semester of the Freshman year, the student is given training in the manipulation of wax—the technique of casting and the art of soldering. (First Year—60 hours—Third term.)

The work of the second year is chosen with a view to giving the student a thorough course in technique. Throughout the three terms of the second year, the student is taught the technical steps in the construction of various types of crowns—a most thorough course in casting technique—soldering and also a study of materials used, such as wax, compound, investments, etc. The third term is devoted entirely to inlays by the Indirect System, both as fillings and as bridge abutments, cavity preparations—impression taking—die making—obtaining wax pattern—investing and casting same. (Second year—120 hours—1st-2nd-3rd terms,)

In the second and third terms of the Junior year, the student is given four bridges to construct on a typodent. Bridgework of both fixed and movable types with special emphasis on abutment preparation for vital teeth. Technique of construction of the different types of bridge pontics. (Junior Year—60 hours—2nd-3rd terms.)

The laboratory course parallels the lecture course. A series of lectures are given discussing the principles of fixed and removable bridgework—indications and contra-indications—choice of abutments—construction of pontics.

The first and second terms of the Senior year are given up to Ceramics. The students are required to construct a porcelain Jacket Crown—a porcelain bridge and an inlay on a model. Lectures are continued in the Senior year.

In the third and fourth years, the student is given practical work in the clinic. Each student is required to complete satisfactorily a certain number of bridge restorations. By means of lectures and personal demonstrations each student is taught how to examine the mouth and how to diagnose different conditions with an aim in view of properly designing appliances which will restore the mouth to health and functional occlusion.

Reference books:—"Dental Anatomy"—Diamond—published by "Dental Items of Interest"; "Modern Crown & Bridgework"—Doxtater—"Dental Items of Interest"; "Inlays by the Indirect System"—Gillet & Irving—"Dental Items of Interest"; "Cavity Preparation & Abutment Construction"—Schwartz—"Dental Items of Interest"; "Art of Porcelain in Dentistry"—Felcher—"Dental Cosmos"; "Ceramics in Dentistry"—Le Gro—"Dental Items of Interest"; "American Textbook of Prosthetic Dentistry"—Lea Fiberg.

DENTAL ANATOMY

LECTURER:—CAMPBELL MORRIS

This course, given in connection with general anatomy in the First Year, aims at giving the student a thorough knowledge of the size, shape, uses, and general construction of the natural teeth, their articulation and composition.

This is accomplished by lectures and demonstrations, with the use of drawings, models and lantern slides.

The student is required to carve in plaster four teeth three times natural size and fourteen teeth natural size representing all the forms in the human mouth, which are then articulated anatomically.

Different sections of extracted teeth are made, to familiarize the student with the relationship of the different structures composing the teeth.

The total time given this subject during the First Year is five hours a week for a period of twenty-six weeks, total of one hundred and ten hours, divided as follows:—one hour a week devoted to lectures, twenty-six hours; the balance to demonstrating, modelling, carving, making sections, etc., one hundred and four hours.

Text-book:—Black, G. V., Diamond, M.—Macmillan Co., New York.

DENTAL HISTORY, ETHICS AND OFFICE MANAGEMENT

LECTURER:—CAMPBELL MORRIS

History:-

This course is intended to give the student an intelligent conception of the evolution and development of dentistry from the primitive conditions and methods of the past to the present standing of the profession as a branch of the healing art. The relation of some of the outstanding men of the profession to this development will also be dealt with.

Ethics:-

Under this head the moral, social and business relationships between the dentist and his patient will be discussed, as well as his duty to the public, his fellow practitioner, and himself.

Office Management:

Under this head the business of the dentist's life will be considered. The question of office equipment, keeping of appointments, overhead charges, methods of determining fees, office assistants, etc., will be taken up.

14.11

DENTAL JURISPRUDENCE

ASSOCIATE PROFESSOR:-F. R. SCOTT

A discussion of the laws governing the practice of Dentistry, their necessity and purpose.

The responsibility of the dentist under the laws of the Province, his position as defendant in suits for damages and as plaintiff in suits for fees, etc., are fully explained.

PATHOLOGY

Professor of Dental Pathology:—Fred. G. Henry
Professor of Pathology:—Horst Oertel
Lecturer and Douglas Fellow in Pathology:—W. H. Chase

Dental Pathology.

This course is given to the students of the Third Year, and includes a consideration of the various diseases of the enamel, dentine, dental pulp and peridental membrane, their symptomatology and treatment, also a consideration of abnormal conditions of the tissues of the oral cavity with a description of treatment and management of these diseases.

Special attention is also given to pathological condition of the nerve structures of the head and their connection with the diseased conditions of the dental tissues.

The mitigation of pain in dental operations receives special attention and the various means employed fully developed and explained, and such directions given as will enable the student to avoid methods and drugs harmful to the tissues.

Text-books:—Prinz, "Diseases of the Soft structures of the teeth"—Lee & Febiger; Burchard, Inglis, "Dental Pathology and Therapeutics"—Lee & Febiger; Bunting, "Oral Pathology"—Lee & Febiger.

MATERIA MEDICA AND THERAPEUTICS AND LOCAL ANAESTHESIA

PROFESSOR:-FRED. G. HENRY

In the Third Year a course of demonstrations and lectures in this subject is given, extending throughout the whole session. This comprises the study of the physical properties, chemical composition and physiological action of the various medicinal substances used in the treatment of diseased conditions of the dental organs and morbid conditions of the oral

cavity, together with their various applications, doses, antidotes, and contra-indications, with instruction in prescribing, etc. Anæsthesia and the various anæsthetics are also taken up, following that already given in the Second Year. A course on local anaesthesia is also given in the Third Year. This comprises lectures, and demonstrations pertaining to local anaesthetics employed in the oral cavity and dental organs; with consideration of the anatomy and structure of the parts. Special attention is given to block anaesthesia, also the various anaesthetics employed with a consideration of the indications and contra-indications for their uses.

Text-books:—Prinz; Local Anæsthesia, Arthur E. Smith; "Block Anæsthesia and Allied Subjects," C. V. Mosby & Co.; Posner, "Local Anæsthesia," C. V. Mosby & Co.; Dental Materia Medica Textbook, Prinz; "Materia Medica & Therapeutics," C. V. Mosby & Co.

DENTAL SURGERY

ASSOCIATE PROFESSOR:—A. L. WALSH

DEMONSTRATOR:-R. E. McMahon

Thirty lectures are given to the Junior Students in the above subject, which includes exodontia, cysts, fractures, and benign tumours, alveolectomy and apicoectomy. The Seniors are given clinics on practical cases and are required to complete one case during the year in any of the above, excepting exodontia.

METALLURGY

PROFESSOR:—ALFRED STANSFIELD

ASSISTANT PROFESSOR:—GORDON SPROULE

This course is given to Dental students of the First Year by the Metallurgical Department of the University.

It consists of twelve lectures of one hour, and twelve laboratory periods of two and a half hours each.

The lecture course covers:-

- (1) Introductory lectures on the physical and chemical properties of metals, especially in relation to their use in dentistry.
 - (2) Methods of melting, casting and alloying metals in the laboratory.
 - (3) Methods of extracting metals from their ores.
 - (4) The nature and preparation of alloys, including amalgams.

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- (5) The metals used in dentistry (lead, zinc, tin, bismuth, cadmium, antimony, aluminum, copper, silver, gold, platinum, iridium, mercury, iron and steel) are considered separately in regard to their properties, uses in dentistry, and, as far as time allows, extraction from their ores. The separation, purification and alloying of gold, silver and platinum are specially considered.
 - (6) The manufacture, properties and uses of dental amalgams.

Text-book:- J. D. Hodgen, "Practical Dental Metallurgy."

The laboratory course includes experimental work with the metals; gold, silver, copper, lead, zinc, tin, aluminum, nickel, iron and steel.

The metals are melted, alloyed, cast, hammered, filed, cut, rolled, annealed and tested with acids and other chemicals.

The preparation of pure gold and silver is carried out and the production and testing of dental and other amalgams.

The course is given during the first term of each session by Mr. Sproule.

OPERATIVE DENTISTRY

Professor:—F. H. A. Baxter Lecturer:—W. G. Leahy

DEMONSTRATOR:—LORNE F. MCRAE

The purpose of this course is to make the students thoroughly familiar with all modern and accepted methods. The course of lectures extends over two years and a half, and includes discussion of the treatment of caries; the preparation of cavities, the materials used for filling, the most approved instruments and appliances used in operating upon the teeth. Clinics will be held at the Dental Clinic, where ample material is provided and every available means used to make the student practically conversant with all the up-to-date knowledge of this important branch of dental science.

In conjunction with this course, operative technics is taken up, which provides a systematic course in manual training, thoroughly familiarizing the student with the anatomy of the teeth, and the shaping of cavities, from the simple to the more complex. This is carried out on models, using the different regular filling materials, scaling, bleaching, and, so far as possible, all of the operative procedures.

The Dental Clinic is open throughout the whole year, and students are advised to give as long a time to this work as possible. Each student must provide himself with the instruments necessary for his own use, a list of which will be furnished. He is required to perform all the usual dental operations as they present themselves, under the supervision of competent demonstrators, who are always at hand to offer advice and assistance under the direction of the Professor. Between the Second and Third Years, and also between the Third and Fourth Years, students are required to spend six weeks doing practical work in the Hospital Clinic.

Text-books:—G. V. Black; 2 volumes published by Medico-Dental Co., Chicago; C. N. Johnson; P. Blackiston & Son Co., Philadelphia. M. E. Jordan, "Dental Items of Interest."

Reference for Periodontia:—Stilman & McCall; "Clinical Periodontia," published by Macmillan Co., New York City.

ORTHODONTIA

PROFESSOR:—A. W. McClelland
Lecturer:—Gerald Franklin
Lecturer in Histology:—D. P. Mowry
Demonstrator:—M. L. Donigan
Assistant Demonstrator:—A. R. Winn

The course in this branch of Dentistry commences with the study of the embryology of the dental organs, covering growth, development and eruption of the teeth.

Orthodontia is taught in three full years of the dental course.

The work of the second year is chosen with a view to giving the student a thorough course in technique. Here, different kinds of free-hand soldering is taught, together with the making of simple appliances; the taking of impressions and the making of plaster models is also taken up in this year.

The third year's work may be divided up into three parts, Practical, Theoretical and Clinical. Advanced appliance technique, plaster work, etc., comprises the practical work of this year.

Ten lectures are given, covering terminology, occlusion and classification, which is deemed sufficient to enable the student to enter on the more difficult theoretical problems of his final year.

Following the lectures, group chair-clinics are given, when patients are examined, simple cases diagnosed, etc.

The third year student is associated with a student of the final year, who is carrying on cases under treatment in the clinic at the Montreal General Hospital. The third year student does not take part in the active treatment, however.

14/14

In the fourth or final year a course of advanced lectures is given. These lectures cover Etiology, diagnoses and preventive orthodontia.

Clinical cases are assigned to each student which he treats under strict supervision.

He is called upon to make appliances suitable to the case at hand. Such appliances are designed by the staff and are constructed of precious metals.

Together with the student being responsible for the treatment of the cases assigned him, he must familiarize himself with all other cases under treatment.

Histology is reviewed, paying special attention to the changes that take place in the bone tissue incident to tooth movement.

In the laboratory, slides which are specially selected are microscopically examined.

Text-books recommended are: - McCoy, Dewey, Angle.

PHYSIOLOGY

THE MORLEY DRAKE PROFESSOR OF PHYSIOLOGY:—JOHN TAIT
RESEARCH PROFESSOR OF PHYSIOLOGY:—BORIS P. BABKIN
ASSISTANT PROFESSOR:—N. GIBLIN

LECTURER—S. DWORKIN

DEMONSTRATORS:—

G. F. SUTHERLAND

D. A. Ross

The purpose of this course is to give the student an elementary knowledge of the whole subject of physiology with a more special knowledge of such aspects of the subject as bear more particularly on the practice of dentistry.

Text-books:—Huxley's "Lessons in Elementary Physiology;" Thornton and Smart, "Human Physiology."

PROSTHETIC TREATMENT OF CLEFT PALATE

I. K. Lowry

Practical clinics are given to Senior students on cases as they come through the Montreal General Hospital. These cases are carried through in the presence of the Dental students.

PROSTHETIC DENTISTRY

Professor:—J. S. Dohan

Lecturer:—I. K. Lowry

Demonstrator:—R. A. Wheatley

The course in prosthetic dentistry embraces lectures illustrated by lantern slides, and practical work in the laboratory, under the supervision of the demonstrator of technics. It includes the preparation of the mouth for dentures, impressions, and the properties of materials used in the construction of artificial dentures. The student is required to construct the different forms commonly used. Attention is directed to the different functions to be performed by the denture in the restoration of the natural conditions as regards mastication, enunciation and the restoring of the features. Students completing the First Year are required to complete ten days' laboratory technique work, which will begin immediately upon the completion of the sessional work.

Text-book:—The American Text-book of Prosthetic Dentistry, by Pierce & Anthony—Lea & Febiger.

SURGERY

ASSISTANT PROFESSOR:-W. L. BARLOW

The course comprises clinical and didactic lectures. All lectures and demonstrations are given in the wards and clinical theatre in the Outdoor Department of the Montreal General Hospital. Cases showing injuries and diseases of the mouth and jaws are demonstrated and the appropriate treatment shown, including operative procedures under local and general anæsthesia.

Text-books:—Oral Surgery, Blair and Ivy, 1923; Brophy's Oral Surgery; Dental Infections, Oral and Systematic, Weston Price, 2 Vols.

CLINICAL INSTRUCTION

Clinical instruction is given in the Operating Theatre and Out-Patient Department and in the Dental Clinic of the Montreal General Hospital. Abundant opportunity is afforded in this institution for the study of diseased conditions of the mouth and jaws, and for watching operations in these regions. The Dental Clinic, established twenty-two years ago by the Hospital authorities, proved a success from the outset, and ample material for clinical study is now provided. Twenty thousand patients were treated at this clinic during the past session.

14.14

Students are required to attend the clinic every day during the Third and Fourth Years from nine to twelve o'clock and from one-thirty to five o'clock, except during such part of the time as may be taken up with lectures or other work of the University course. The practical dental work is supervised by the Director of the clinic and his associates. Anæsthetics are administered by members of the resident staff of the Hospital, who give practical instruction in this most important branch. A nurse is also in attendance during clinic hours.

LIBRARY

In conjunction with the Medical Library, which contains all the standard text-books in the branches of the first two years in Dentistry, there is a section dealing exclusively with dental subjects. Students may consult any work of reference in the Library between 9 a.m. and 9 p.m. during the session; Saturdays, 9 a.m. to 5 p.m.

MUSEUM

In connection with the Pathological Museum of the Medical Faculty there is a very good collection of plaster casts of deformities of the jaw. etc., and also a very large collection of teeth of all varieties.

FACULTY OF LAW

GENERAL INFORMATION

COURSE OF STUDY

The Faculty offers a three-year course in Law, based mainly on the study of the Roman and Civil systems, the curriculum and time table being arranged on the assumption that a student is devoting his entire time to his university work.

ADMISSION

Students who have successfully completed two years in the Faculty of Arts and Science at McGill University will be admitted to the Faculty of Law without further examination. Other candidates for admission will have to satisfy the Faculty that they have attained an equivalent educational standard, and are intellectually qualified to pursue with advantage the study of law.

Students whose right to enter the Third Year of the Arts and Science Faculty is conditional upon their passing supplemental examinations are not eligible for admission to the Faculty of Law.

Women are admitted to the Faculty on the same terms as men, and are eligible for the degree. As the law stands at present, however, they cannot be admitted to the Bar or to the notarial profession in the Province of Ouebec.

The Faculty may admit a limited number of suitable persons to attend selected courses of lectures without matriculation in the University. Such permission will only be granted to applicants of at least twenty-one years of age who satisfy the Faculty of their capacity to undertake with advantage the study of law. They will not be allowed to proceed to a degree, but will be entitled to receive a certificate specifying the course of study which they have successfully pursued and the class which they have obtained in the examination.

Candidates for admission are required to interview the Secretary of the Faculty and to obtain permission to register from him.

FRENCH

The attention of students is directed to the necessity of being able to read French easily, as the greater number of the works to which they will be referred are in that language.

11 111

REGISTRATION

All students must register in person at the office of the University Registrar between Monday, September 23rd, and Saturday, September 28th. First Year students who wish to consult the Dean personally with regard to their course should register not later than Wednesday, September 25th.

Students registering later than the prescribed dates will be required to pay a late registration fee of \$5 during the first week of the session and \$10 during the second. This will not be refunded, except by special permission of the Faculty.

Students must bring with them at the time of registration the evidence necessary to show that they are entitled to admission into the Faculty, if this has not already been furnished.

MEDICAL EXAMINATION, ETC.

See page 95.

FEES

Tuition Fees

1.	Undergraduates	
	Annual fees	\$235.00
	By instalments: Each of two instalments	120.00
2.	Partial Students	
	Per hour of instruction per week, for full course	\$25.00
	For use of Library	4.00
	The total partial fee will not exceed the full undergraduate fee.	
Ot	ther Fees	
3.	Late registration, after September 28th	\$5.00
	Late registration, after October 5th	10.00
	Special Examinations (see page 351) per paper	5.00
	Conferring the degree "In Absentia"	10.00
	Certified copy of student's record	1.00
	Additional copies (at same time)	.50
	A fine will be exacted for late Medical Examination	.00
	(see page 95)\$5.00 or	\$10.00
	A fine will be exacted for late Graduating Essays (see	AND RES

4. Students' Activities. A sessional fee of \$17 is payable by all men undergraduates and \$12 by all women undergraduates for the support of student organizations, for the rinks and tennis courts, and for admission to all home games under the control of the Athletic Board.

page 352).....

5.00

- 5. Partial students pay \$3 for athletics and athletic grounds. If they desire such of the privileges of section 4 as are open to them, an additional \$9.50 will be charged for men students and \$5.50 for women students.
- Caution Money. Every student is required to make a deposit of \$5
 as Caution Money to cover damage done to furniture, apparatus,
 books, etc. This amount, less deductions, is returned at the close of the
 session.
- 7. Students registering late must pay their fees when they register, failing which they become subject to the provisions of regulation 9.

1414

- 8. Immediately after the prescribed dates for the payment of fees a list of the registered students who have not paid their fees is sent to the Dean of the Faculty, who removes their names from the register of attendance. Such students are not readmitted to any class until instructions have been received from the Bursar that the fees have been paid.
- 9. Dates of Payments. Fees are due and payable at the Bursar's Office on Monday, September 30th, between the hours of 9 a.m. and 1 p.m. and 2.30 to 4 p.m., but they may be paid before that date. The second instalment is due and payable on February 1st. An additional \$2 is charged for payment after the specified dates.
- 10. All fees are payable in Canadian currency.

PRIZES, SCHOLARSHIPS, AND MEDALS

The "Elizabeth Torrance Gold Medal," founded in 1864 by Professor John Torrance in memory of his wife, is awarded to the student who obtains the highest marks in the Final Examination.

The Montreal Bar Association offers a prize of \$50 to the student who obtains the highest standing in Commercial Law, and the Junior Bar Association a prize of \$15 to the student who obtains the best marks in Civil Procedure in the Final Year.

The "Alexander Morris Exhibition," of the value of \$50, founded in memory of the late Hon. Alexander Morris, M.A., D.C.L., of Toronto, will be awarded to the student who obtains the highest standing in the Second Year.

Other prizes may be awarded at the discretion of the Governors.

The "Macdonald Travelling Scholarship" was founded by the will of the late Sir William Macdonald "for the purpose of enabling English-speaking Law students to take a course of studies in France," the testator "deeming it of great importance that the English-speaking members of the legal profession should be proficient in the French language." The value of the scholarship is the income from a capital sum of \$24,335, and is approximately \$1,000. The scholar elected is required to pursue a year's study in the Law Faculty of a French University approved, in each case, by the McGill Faculty of Law. The award is made at the discretion of the Faculty to a student of the graduating class, not being a notarial student, who has obtained first or second class honours in the Final Examination. The Faculty interprets the will of the late Sir William Macdonald as intending that the Scholarship be awarded only to men students preparing for practice as advocates in the Province of Quebec.

The "Edwin Botsford Busteed Scholarship" was founded by the will of the late Mrs. Edwin Botsford Busteed and will be awarded to a student, chosen by the Faculty, in the graduating year who desires to carry out research after graduation on some subject connected with the law of Quebec. The value of the scholarship is the income from a capital sum of \$6,000 and is approximately \$300. The successful candidate, whether or not he registers for the degree of M.C.L., will be required to report progress at intervals during his tenancy of the scholarship, and to prepare a thesis on a subject approved by the Faculty.

The "Thomas Alexander Rowat Scholarship" was founded by Mr. Donald McKenzie Rowat, N.P., in memory of his brother, Lieutenant Thomas Alexander Rowat, B.C.L., who was killed in action at Lens, France, on the 28th June, 1917. The value of the scholarship is the income from a capital sum of \$1,000, and is approximately \$80. It is awarded in alternate years for proficiency in the French language and in the old French law. Candidates must be British subjects of Anglo-Saxon or Celtic origin. The next award of this scholarship will be in the session 1935-36.

The "Charles Albert Nutting Prize" was founded in 1930 by Miss Adelaide Nutting, M.A., R.N., in memory of her brother, Charles Albert Nutting, K.C., B.C.L., who graduated from this faculty in 1872. The value of the prize is the income from a capital sum of \$1,000, and is approximately \$50. It is awarded to the student in the first or second year submitting the best essay on a topic related to legal history, the topic to be fixed in advance by the Faculty.

Students in the Faculty are eligible for Rhodes Scholarships tenable at the University of Oxford for a term of three years.

The Lieutenant-Governor's Silver Medal will be awarded to the student who stands highest in the Final Examination in Roman Law.

The Lieutenant-Governor's Bronze Medal will be awarded to the student who stands highest in the First Year course in Obligations.

No medals, prizes or scholarships will be awarded if, in the opinion of the Faculty, there is no candidate of sufficient merit.

DEGREES

B.C.L.

The degree granted in the Faculty is that of Bachelor of Civil Law. The course covers three years.

No student under the age of 21 years will be eligible for a degree.

M.C.L.

The degree of Master of Civil Law is granted under the authority of the Faculty of Graduate Studies and Research for advanced study in legal subjects. The candidate must have the degree of B.C.L. from McGill or its equivalent, and must have obtained at least second class honours in the subject which he proposes to study and in the course as a whole. He must spend at least one year in resident study and present a thesis on some topic connected with his subject. The complete regulations governing this degree are given on page 386.

1411

D.C.L.

The degree of Doctor of Civil Law is granted under the authority of the Faculty of Graduate Studies and Research. The regulations governing this degree are given on page 390.

LIBRARY

The Law Library of the University at present contains over 12,000 volumes, and immediately adjoins the lecture rooms. The principal reports of Canada, the United Kingdom, and France are taken, as well as a selection of reports from the United States and elsewhere.

There is a small lending library, from which students can obtain text-books for the session on payment of an *ad valorem* fee.

The general Library of the University is also available for the use of Law students.

OFFICE ATTENDANCE

The attention of students is directed to the amendment of the Bar Act passed at the 1925 session of the Quebec Legislature which reduces the period of clerkship to one year for students who have previously obtained a recognized degree in Law. Advantage has been taken of this to reorganize the Faculty on a full-time basis. The final Bar examination may be taken as soon as the student has been admitted to the study of Law and has taken his B.C.L. degree. (For particulars as to Bar requirements, see page 354.)

EXAMINATIONS

Examinations will be held:-

- (a) At the end of the first session, covering the year's work.
- (b) At the end of the second session, covering the second year's work, the final examination in Roman and Constitutional Law on the work of both years being held at this time.
- (c) At the end of the course, on the work of the three years, except Roman Law, Constitutional Law and International Law.

Subject to the approval of the Faculty in each case, a student who has been prevented by illness from taking certain papers in the sessional examination may be permitted to take special papers on the same subjects. A fee of \$5 will be payable in respect of each paper. No other special examinations will be granted.

At all examinations in the Faculty students are at liberty to write their answers either in English or in French.

CLASSIFICATION OF MARKS

Class I80-	00%
Class II	79%
Class III 50-	69%
In order to pass a student must have an average of 60%.	

GRADUATING ESSAY

In addition to passing examinations students must submit, not later than the 31st of January of their graduating year, a thesis of from five to ten thousand words on a subject set by the Faculty. Although no marks are assigned to the thesis, no degree will be granted unless it is adjudged satisfactory. It will be taken into account in awarding honours and prizes of a general nature, such as the Elizabeth Torrance Gold Medal and the Macdonald Travelling Scholarship, and in deciding upon doubtful cases.

CURRICULUM

FIRST YEAR

ROMAN LAW

Three hours throughout the session.

Professor Corbett.

CIVIL LAW

(a) Persons and Property.

Two hours throughout the session.

Professor LeMesurier.

(b) Obligations.

Two hours throughout the session.

Professor Scott.

CRIMINAL LAW AND PROCEDURE

Two hours throughout the session.

Professor Surveyer.

CONSTITUTIONAL LAW

One hour, one term.

Professor Scott.

INTERNATIONAL LAW

One hour throughout the session.

Professor Corbett.

SECOND YEAR

ROMAN LAW

One hour throughout the session.

Professor Corbett.

CIVIL LAW

(a) Sale, agency, partnership, privileges, hypothecs and registration.

Two hours throughout the session.

Professor LeMesurier.

(b) Marriage covenants, lease and hire, prescription and minor contracts.

Two hours throughout the session.

Professor Chipman.

(c) Successions, gifts, wills, substitutions and trusts.

One hour throughout the session.

Professor Scott.

LEGAL HISTORY

One hour, one term.

Professor Corbett.

CONFLICT OF LAWS

One hour, one term.

Professor LeMesurier.

CIVIL PROCEDURE

Two hours, first term. One hour, second term. Professor Tyndale. Mr. Abbott.

CONSTITUTIONAL LAW

One hour, one term.

Professor Scott.

MUNICIPAL LAW

One hour, one term.

Mr. Heeney.

THIRD YEAR

COMMERCIAL AND MARITIME LAW

(a) Corporations.

One hour throughout the session. Professor Bruneau.

(b) Introduction to the study of Commercial Law and Insurance. One hour throughout the session. Mr. Claxton.

(c) Negotiable instruments and banking.

One hour throughout the session.

Professor Scott.

(d) Maritime Law and Carriers.

One hour throughout the session.

Professor Scott.

CIVIL LAW REVIEW

One hour throughout the session.

Professor LeMesurier.

CIVIL PROCEDURE

Two hours, first term. Two hours, second term.

Mr. Abbott. Professor Tyndale.

EVIDENCE

One hour, one term.

Professor Tyndale.

CRIMINAL LAW AND PROCEDURE

One hour, one term.

Professor Surveyer.

COMPARATIVE LAW

One hour, one term.

Professor Surveyer.

CONFLICT OF LAWS

One hour, one term.

Professor LeMesurier

SPECIAL LECTURES

The Hon. Mr. Justice Mignault will deliver two special lectures in the course of each session.

NOTE.—Changes in the by-laws of the Bar of the Province of Quebec governing legal education may necessitate some modifications in the curriculum.

ADMISSION TO THE PRACTICE OF LAW IN QUEBEC

The attention of the students who wish to be admitted to the Bar or to the notarial profession in Quebec is drawn to the following summary of the statutory provisions governing the practice of law in the Province:—

1. REGULATIONS APPLICABLE TO THOSE WHO INTEND TO BECOME MEMBERS OF THE BAR

N.B.—The articles are here abridged.

R.S.Q., 1925, c. 210, Section 48.—Examinations for admission to study and to practise law in the Province of Quebec are held at the time and place determined by the General Council.

The examinations are held alternately in Montreal and Quebec every six months; namely, at Montreal on the second Tuesday of each January, and at Quebec on the first Tuesday of each July.

All information concerning these examinations can be obtained from the Secretary-Treasurer of the General Council.

Section 50—Candidates must give notice, as prescribed by this article, at least one month before the time fixed for the examination to the Secretary of the section in which he has his domicile or in which he has resided for the past six months.

R.S.Q., 1925, c. 209, Section 2—This section provides that candidates holding the degree of Bachelor of Arts, Bachelor of Science, or Bachelor of Letters, from any Canadian or British University are dispensed from the examination for admission to study. Such candidates are required to give the notice mentioned above.

R.S.Q., 1925, c. 210, Section 52 (as altered by by-law of the General Council).—On giving the notice prescribed by Section 50, the candidate pays the Secretary a fee of \$2.00, and makes a deposit of \$150.00 for a complete certificate of admission to study; of \$85 for a partial certificate of admission to study; and \$200 for admission to practice, which deposit, less \$40, is returned in case of his not being admitted.

Section 57.—To be admitted to practice, the student must be a British subject and must have studied regularly and without interruption during ordinary office hours, under indentures entered into before a notary, as clerk or student with a practising advocate during four years, dating from the registration of the certificate of admission to study. In the case of a student who has followed a regular law course in university or college in this Province and taken a degree in law therein the term is reduced to three years, carried on concurrently with the law course, or to one year after having received the said degree.

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The By-laws passed by the General Council of the Bar of the Province of Quebec provide as follows:—

Article 51—A course of lectures on law given and followed at a university or law school of this Province, and the diploma or law degree conferred on students by such university or law school shall count with reference to the Bar Act only if the course of study hereinafter outlined has been effectively followed by the university or law school and by the holder of the diploma.

Article 52—A regular law course in a university or law school of this Province consists of seven hundred and eighty-five lectures of one hour each. These lectures are given on the various subjects in the following proportions:—

ROMAN LAW:—103 lectures:—This course comprises an introduction to the study of law, with explanatory remarks and comments on the Institutes of Justinian and on the principal Roman jurisconsults.

CIVIL, COMMERCIAL AND MARITIME LAWS:—413 lectures:—The course on these subjects must cover a period of at least three years. It comprises the history of French and Canadian law, explanatory remarks and comments on the Civil Code and on the statutes respecting commerce and shipping.

CIVIL PROCEDURE:—103 lectures:—This course must extend over at least two years. It comprises explanatory remarks and comments on the Code of Civil Procedure and of its statutory amendments, a study of the organization of the Civil Court of this Province and the history of the different judicial systems of the country; also the special modes of procedure provided by the statutes and the by-laws in general, as well as the Bar Act and the By-laws regarding the discipline of the Bar.

Public and Private International Law:—21 lectures:—This course comprises an historical outline, the sources of this law and of its subject matter, its objects (primary and secondary rights of sovereign states), rules of war, commercial and extradition treaties, etc., in force in Canada, as well as the rights and obligations of the citizens of the Province of Quebec and of Canada, and of aliens in the event of conflict of laws.

CRIMINAL Law:—69 lectures:—This course comprises the history of Canadian criminal law, the organization of the criminal courts, criminal procedure, comments on the criminal law of the country, a comparative study of English and Canadian criminal law. The lectures shall extend over two years.

Constitutional and Administrative Law:—41 lectures:—This course comprises an enquiry into the different constitutional enactments and public institutions of the country, the powers, the organization, the procedure of the Federal Parliament and of the Provincial Legislatures, the laws of education, and the Municipal Code.

COMPARATIVE LAW:—30 lectures:—This course comprises a concise enquiry into the English common law, and a general knowledge of the main principles underlying the civil and commercial laws of the other Provinces of Canada.

Article 53—The candidate for admission to practice who has obtained a law degree from a university or law school of this Province, must file, together with this notice, a certificate from the Principal or Head of such university or law school establishing that he has followed a law course in such university or law school during at least three years, in conformity with the Bar Act, and, moreover, specifying the number of lectures he has actually attended in each subject comprised in the foregoing curriculum during each of the three years and during the three years as a whole.

Article 54—The examiners must refuse to accept such degree as valid under the provisions of the Bar Act, if they are of the opinion that the course of study hereinabove outlined has not been effectually followed by the candidate.

II. REGULATIONS APPLICABLE TO THOSE WHO INTEND TO BECOME NOTARIES

For the regulations applicable to candidates for the notarial profession, see Revised Statutes of Quebec, 1925, ch. 211, Secs. 208-241.

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FACULTY OF MUSIC

SESSIONAL ANNOUNCEMENT

The work of the Conservatorium of Music for the season 1935-36 will begin on September 16th, 1935, and will end on June 10th, 1936. It consists of three terms of eleven weeks each, with an additional summer term of three weeks, viz.:—

- (a) September 16th to November 30th.
- (b) December 2nd to February 29th (Christmas vacation, December 21st to January 6th).
- (c) March 2nd to May 20th.
- (d) May 21st to June 10th (short summer term).

Lectures arranged in progressive courses are offered as forming part of a connected curriculum, leading to certificates and diplomas, as well as to degrees in Music in the University.

The lectures will begin in the first week of October and extend over three terms of ten weeks each, viz.:—

- (a) September 30th to December 7th.
- (b) December 9th to February 29th.
- (c) March 2nd to May 9th.

The examinations in Montreal for certificates and diplomas will be held towards the end of the third term, i.e., from May 6th to May 18th. The Theoretical Examinations which precede the Practical Local Examinations will begin approximately April 26th (see page 364).

ADMISSION

Students of the Conservatorium are admitted either as:-

Regular Students, taking an organized course, which includes individual instruction in a First and Second Subject, together with such classes and lectures as may be thought advisable by the Director, leading to the Diploma of Licentiate in Music or the Degree of Bachelor of Music in the University.

Partial Students, who, besides individual instruction in the one principal subject, have the privilege of attending certain classes. Instrumentalists are, at the discretion of the Director, assigned to certain of the following classes:—Theory, Harmony, History, Form and Analysis; Ensemble Playing. Vocalists are assigned to two of the following classes:—Theory, Sight-Singing, Elocution and Diction, Choral Class.

Class Students. Those wishing to attend lectures or classes only, in either theoretical or practical subjects.

FEES

CONSERVATORIUM OF MUSIC

The fees are as follows:-

Regular Students. \$225.00 a year payable at the beginning of the session (not later than October 1st) or in two instalments of \$115.00 each, payable before October 1st and January 15th, respectively. This sum also covers the fees for the Diploma or Degree Examination at the end of the year, as well as fees to Students' Societies, and charges for Physical Education—which is compulsory.

At the request of the students themselves and by the authority of the Senate, a fee of \$17.00 is collected from all men undergraduates for the support of certain Student Societies, the use of the skating rinks and tennis courts during the session and for admission to the home games under the control of the Athletic Board. Women undergraduates pay a fee of \$12.00. These items, however, are covered by the regular fees in the case of undergraduates.

Partial Students. \$30.00 to \$60.00 (according to instructor selected) per term of eleven weeks. Students paying in full for three terms of eleven weeks each are allowed to take the examination for a Local Centre Examination Certificate at the end of the year without any further fee.

Class Students. Fees vary between \$5.00 and \$25.00 per term, according to class. Precise information can be obtained on this point from the Secretary.

The fees for examinations for Certificates, when not included in the term fees as above mentioned, are the same as the fees for the Local Examinations. (See Announcement of the Faculty of Music.)

In all cases fees must be paid strictly in advance at the office of the Conservatorium.

No individual or class lessons will be given to any student who is unable to produce a receipt showing that the necessary fees have been paid.

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1414

FEES FOR DIPLOMA AND DEGREE EXAMINATIONS

DIPLOMA OF LICENTIATE (L. Mus.)—Fees for examination, \$45.00, of which \$15.00 is payable at each examination. Diploma fee, \$5.00.

DEGREE OF BACHELOR OF MUSIC (Mus. Bac.)—Matriculation fee, \$10.00 (see University Calendar). Fees for examinations payable as follows:—First examination in Music, \$20.00. Second examination in Music, \$20.00. Graduating fee, \$20.00.

Although under special conditions exemptions from certain examinations for the Diploma of Licentiate and Degree of Bachelor of Music may be allowed, there is no exemption from the fees given above, except in the case of candidates holding the requisite McGill Local Centre Certificates.

DEGREE OF DOCTOR OF MUSIC (Mus. Doc.).—Fee \$100.00, one-half of which (\$50.00) is paid when submitting exercise and the balance (\$50.00) before the final examination.

N.B.—Candidates examined in theoretical subjects connected with the above Degrees and Diplomas at centres other than Montreal will probably have to pay a local supervisor's fee in addition to the fees stated above.

CONSERVATORIUM REGULATIONS

- 1. Fees are not refunded, nor is the length of the term extended on account of temporary absence. Absence from lessons caused by prolonged illness may be allowed for, provided the Secretary is notified and a Doctor's certificate presented.
- 2. No business matters can be arranged through the instructors, but must be transacted through the office.
- 3. Students cannot register for less than a term and must notify the Secretary, at least a week before the end of the term, if they wish to discontinue lessons, otherwise it is understood that lessons will be continued through the following term and fees for the full additional term must be paid.
- 4. Any lessons missed in consequence of the instructor's absence will be made up at the mutual convenience of instructor and pupil. Lessons missed by students are their loss, unless a Doctor's certificate is produced, when lessons will be made up, but no fees will be refunded or remitted.
- 5. All students must sign the attendance register in the office immediately after each lesson.

- 6. Every student (except those attending schools) must, at the beginning of each session, *either* produce a medical certificate from his or her medical attendant *or* be examined by the Medical Officer appointed by the University. See page 95.
- 7. No student suffering from an infectious or contagious disease, or who is, in the opinion of a competent medical attendant, in any way brought into contact with any person infected with such disease, is allowed to attend.
- 8. Students are required to be punctual at lessons, lectures, concerts and examinations.
- 9. Notices on the bulletin boards are official, and students are requested to pay due attention to such as may be posted there.
- 10. No change in course or teacher can be made without first obtaining the consent of the Director.
- 11. Students are advised to take the sessional examination (the form of such examinations to be decided by the Director) and are prepared for the same by the instructor or instructors to whom they are assigned.
- 12. Students wishing either to take part in any public musical performance, publish a composition, or accept a professional engagement, must first obtain the consent of the Director.
- 13. The name of each lecture and the hours at which the classes are held will be posted on the notice boards.
- 14. Registered students of the Conservatorium must take part in either recitals or concerts, if required to do so by the Director.
- 15. Visitors are not allowed to be present during any lesson (class or private) except by permission.
- 16. The Director has the right to refuse or to cancel at any time the registration of any individual whose presence in the Conservatorium may appear detrimental to its interests.
 - 17. Smoking within the building is absolutely prohibited.
- 18. Physical education is compulsory for all regular students of the first two years, two periods per week being devoted to it. No student is asked to do work unsuited to his or her physique, and students debarred from exercise of any kind are dealt with separately and carefully advised.

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REQUIREMENTS FOR DEGREES AND DIPLOMAS

(For Fees, see page 358.)

For requirements for the degree of Doctor of Music, see page 391.

DEGREE OF BACHELOR OF MUSIC

All candidates for this degree must pass the following examinations:-

- 1. The Matriculation examination.
- 2. The First examination in Music (at the end of the first year).
- 3. The Second examination in Music (at the end of the second year).
- 4. The Final examination in Music (at the end of the third year).

A specimen set of papers for each of the three examinations in Music can be obtained from the Secretary, price 25c each.

The Matriculation Examination

The Matriculation Examination is held yearly, in June, at McGill University and at various centres throughout the Dominion. There is also an examination held in September, but at McGill University only. Candidates for musical degrees are examined in the following:—

- 1. English (two papers).
- 2. History (one paper).
- Two of the following languages:—French, German, Latin, Italian, Spanish (two papers in each of the two languages chosen by the candidate).
- 4. Algebra or Geometry (one paper).
- 5. Music—one paper. The paper set is that of the Highest Grade (Harmony and Counterpoint) of the local theoretical examination in Music and must be taken by the candidate at the regular examinations held by the Conservatorium in May.

Further information with regard to this examination, and exemption therefrom through the possession of certain equivalent certificates is given on page 70.

EXAMINATIONS IN MUSIC

The first and second practical studies are no longer required. In their place reading from open score is required in each part of the Mus. Bac. examination.

First Examination in Music

- (a) Harmony in three and four parts.
- (b) Strict Counterpoint up to three parts, and answers to Fugue subjects.
- (c) Form and analysis. Questions will be given on accent, cadence, metre, rhythm, phrasing, etc., and on form shown in the works of the classic composers.
 - (d) General outlines of musical history.
- (e) Playing on the pianoforte from open vocal score (G & F clefs only).
 - (f) Viva voce.

Second Examination in Music

- (a) Harmony in not more than four parts, choral and instrumental.
- (b) Counterpoint (strict and free) in not more than four parts.
- (c) Canon in two parts and fugal exposition up to four parts.
- (d) History of music from the 16th century to the present day.
- (e) Form and analysis. The candidate must show an intimate knowledge of a few compositions, the names of which will be supplied on application, at least three months before the date of examination.
 - (f) Elementary knowledge of acoustics or physiology of the voice.
 - (g) Playing on the pianoforte from string quartet score.

1414

(h) Viva voce.

The possession of the Diploma of Licentiate of Music obtained either under Class I or Class III from McGill University exempts candidates from the necessity of taking the First and Second Examinations for Mus. Bac., and, accordingly, candidates can proceed direct to the Final Examination, provided that they have matriculated.

Final Examination in Music

- (a) Harmony up to five parts.
- (b) Free Counterpoint, up to five parts, in 16th century style.
- (c) Double Counterpoint in 8ve, 10th and 12th.
- (d) Canon and fugue in three and four parts.
- (e) History of music from the earliest time to the present.
- (f) Form and analysis. Knowledge will be required of such works as the following:—Bach's 48 Preludes and Fugues; Beethoven's Pianoforte Sonatas; Schubert's, Schumann's and Brahms' Songs; an Opera or an Oratorio; Symphonies and Overtures by Mozart, Beethoven, Brahms, Mendelssohn, Wagner, besides contemporary works. Candidates may, at least three months before the examinations, obtain from the Secretary of the Faculty of Music a complete list of the works upon which the examination papers in this subject will be based.
- (g) Instrumentation. A knowledge of the compass and capabilities of all instruments in the modern orchestra and the scoring of a given passage in a given time; also the reading at sight from an easy score of a classical composer.
- (h) Two compositions to be sent in by a candidate, to be received by the Secretary of the Examining Board not later than the last day of the second week in April. One to be an unaccompanied vocal work (not an anthem) showing considerable vocal resource; the other to be a work for strings, or combination of not less than four instruments or full orchestra. The works may be in any form and the instrumental composition should take not less than seven minutes to perform.
 - (i) Viva voce.

REGULATIONS FOR THE DIPLOMA OF LICENTIATE OF MUSIC

(For Fees, see page 358)

Candidates may elect to be examined either in:-

Class 1—Theoretical Subjects and Composition, or

Class 2-Practical Subjects as Performers, or as

Class 3—Teachers in both Theory and Practice.

CLASS 1—THEORETICAL SUBJECTS AND COMPOSITION

First Examination

- (a) Advanced Rudiments, including Sight Reading and Ear Tests.
- (b) The Harmony and Counterpoint paper of the Highest Grade Local Centre theoretical examinations.
- (c) History and Form and Analysis paper of the Highest Grade Local Centre theoretical examinations.

Second Examination

Requirements a, b, c, and d are the same as those for the First Examination for Mus. Bac. (See page 362.)

(e) Composition of a song (or two short songs) or a miniature suite for piano (or piano and violin, or any other combination), or an arrangement for S.A.T.B. (unaccompanied) or three female voices (accompanied or unaccompanied) of any genuine folk-song. The parts must show character and independence. The MS. must be in the hands of the Secretary of the Examining Board, McGill Conservatorium of Music, Montreal, not later than the last day of the second week in April.

Third Examination

Requirements a, b, c, d and e are the same as those of the Second Examination for Mus. Bac. (See pages 362 and 363.)

LOCAL CENTRES

The following places have been adopted as centres for public examinations in Music; others will be added as necessity requires, but in all cases the establishment of a centre depends upon a sufficient number of candidates applying. All examinations for Certificates in the Local Grades, as well as some of those for Degrees and Diplomas, are held at these centres:

Amherst	Hon. Secretary: Mrs. Geo. R. Sniers, 35
	. Hon. Representative: The Superintendent of Schools.
Brandon	.Hon. Representative: Principal of Brandon College Institute.
Brockville	. Hon. Representative: Rev. J. G. Sparling. Hon. Secretary: Mrs. M. MacOdrum, West Pine St.
Calgary	. Hon. Representative: A. Calhoun, Esq., City
Campbellton	. Hon. Representative: Hon. Secretary: Miss Laura Alford.
Charlottetown	.Hon. Secretary: Miss Lillian McKenzie, Mus. B. (McGill), 277 Richmond Street.
	.Hon. Representative: Principal of the High School. Hon. Secretary: Mrs. D. Finlayson.
	.Hon. Representative: Hon. A. C. Rutherford, 912-916 McLeod Building. Hon. Secretary: Mrs. O. J. Walker, L. Mus. (McGill), 11103 Saskatchewan Drive.
	. Hon. Representative: Mrs. H. J. Johnson. Hon. Secretary: Miss S. E. West.
Fort Qu'Appelle	.Hon. Representative: W. H. Thompson, Esq.
	.Hon. Representative: The Very Rev. Dean J. H. A. Holmes.
Glace Bay	. Hon. Representative: Rev. C. R. F. Mac- Lennan, 16 York St. Hon. Secretary: Miss B. McGregor.

Gladstone	Hon. Representative: Dr. E. H. Whelpley. Hon. Secretary: David B. McHardy, Esq., 200 Manderville St., Winnipeg.
Granby	Hon. Representative: Dr. G. A. Runnells, 35 Dufferin Street. Hon. Secretary: Miss Gertrude Wallace, L.Mus. (McGill).
Halifax	. Hon. Representative: Rev. S. H. Prince, King's College. Hon. Secretary: Miss Ada Hoyt, 3 College St.
Indian Head	Hon. Representative: Dr. F. W. Hart. Hon. Secretary:
Kamloops	. Hon. Representative: Mrs. P. H. McCurrach, B.A.
	Honorary Secretary: Miss Bertha Dillon, L. Mus. (McGill), Box 716.
Kentville	. Hon. Representative. Rev. A. R. Donahoe. Hon. Secretary: Mrs. S. L. Cross, Box 768.
Kerrobert	Hon. Representative: R. L. Hanbidge, Esq., K.C. Hon. Secretary: Miss L. G. Miller.
Kimberley	.Hon. Representative: A. E. Oughtred, Esq., B.A. Hon. Secretary: Miss Janet McKay.
Lethbridge	.Hon. Representative: A. J. Watson, Esq., Supt. of Schools, Central School. Hon. Secretary: Miss Jennie King, Coaldale, Alta.
Macgregor	. Hon. Representative: Rev. J. R. Johns.
	. Hon. Secretary: Miss Netta McEwen, Box 294.
	. Hon. Representative: Rev. J. A. Ramsay, The Manse, Alma St. Hon. Secretary, Dr. Geo. Ross, 75 Archibald Street.
Moose Jaw	Hon. Representative: A. H. Gibbard, Esq., B.A., City Librarian, Public Library. Hon. Secretary: Charles F.Nidd, Esq., L.Mus. (McGill), L.R.S.M., 1127 Third Ave N.
Nelson	Hon. Representative: H. E. Dill, Esq., 418 Mill St.

Hon. Representative: Mrs. J. T. McLeod,
Stellarton.
Hon. Secretary: R. G. Humphreys, Esq., Evening News Bldg.
Hon. Representative: Dr. Duncan Campbell Scott, Government Offices, Booth Bldg.
Hon. Secretary: Kenneth R. Meek, Esq., L.Mus., 154 Slater St.
Hon. Secretary: Miss E. Moore, R.R. No. 1, Pembroke, Ont.
Hon. Representative: Rev. Canon G. Thompson.
Hon. Secretary: Miss Monica L. Craig, L.A.B.
Hon. Representative: Rev. Dr. Blagrave. Hon. Secretary: F. G. Mann, Esq., 199 London St.
Hon. Representative: C. L. Moore, Esq., M.A. Hon. Secretary:———
Hon. Representative: J. A. McHattie, Esq.
Hon. Secretary:
. Hon. Secretary: Miss Isabelle Douville, 18 Clay St.
Hon. Representative: Dr. G. W. Parmelee, Parliament Bldgs.
Hon. Secretary: W. Rains, Esq., Holy Trinity Cathedral.
.Hon. Representative: President of Regina College.
Hon. Secretary: H. J. Record, Esq., 3327 Dewdney Ave.
. Hon. Secretary: Miss Shella Dickey.
.Hon. Secretary: Miss A. Davidson, L.Mus. (McGill).
.Hon. Representative: Rev. C. Gordon Laurence, M.A., 50 Orange St.
Hon. Secretary: Miss Eileen Gillis, L.Mus. (McGill), 4 Wellington Row.

Saskatoon	.Hon. Representative: W. A. Gilchrist, Esq.,
	Canada Bldg. Hon. Secretary: Geo. C. Palmer, L.R.A.M., Esq., 652 University Drive.
Sherbrooke	.Hon. Representative: W. O. Rothney, Esq., M.A., Ph.D., Bishop's University, Lennox- ville.
	Hon. Secretary: Wright W. Gibson, Esq., M.A., High School.
Stellarton	. Hon. Representative: Mrs. J. T. McLeod. Hon. Secretary: L. N. Miller, Esq., L.Mus. (McGill), Box 44.
Sutton	. Hon. Representative: Ven. Archdeacon H. Charters, B.A., L.Th. Hon. Secretary: Miss Gertrude Gingras.
Sydney Mines	.Hon. Representative:————————————————————————————————————
Timmins	.Hon. Representative: Herbert Bourne, Esq. Hon. Secretary: H. F. Schroeder, Esq., 65 Elm St.
Truro	.Hon. Representative: C. G. Mosher, Esq. Hon. Secretary: Miss M. M. Carter, 135 Dominion Street.
Vancouver	 Hon. Representative: G. E. Robinson, Esq., B.A., British Columbia University. Hon. Secretary: Mrs. J. A. C. Harkness, B.A., L.Mus. (McGill), 3811—13th Ave. W.
Victoria	. Hon. Representative: Rev. Norman E. Smith, St. Barnabas Rectory. Hon. Secretary: Dr. J. E. Watson, 617 Fort St.
Winnipeg	 Hon. Representative: John Parton, Esq., 356 Main St. Hon. Secretary: Miss Kathleen Robson, Mus. Bac. (McGill), 321 Dromore Ave.
Wolseley	
	.Hon. Secretary: Miss B. A. Posamonick, c/o Mrs. J. J. Clarke Robins, Willow St.
Yorkton	. Mrs. R. H. Johnston, 164-2nd Ave. N.

FACULTY OF GRADUATE STUDIES AND RESEARCH

GENERAL STATEMENT

The Faculty of Graduate Studies and Research directs and controls all courses leading to the higher degrees and recommends candidates for these degrees.

The members of the Faculty are the Deans of the other University Faculties and all Professors and Associate Professors who conduct advanced courses of study or who superintend advanced research work leading to the degrees awarded by the Faculty. Other members of the University may be elected members of the Faculty in full session upon proper notice of motion.

Appointments to the Faculty are subject to the approval of the Senate.

There are two divisions of the Faculty, known as "The Arts Division" and "The Science Division." The Arts Division includes the following Departments of study, viz., Classics, Economics and Political Science, Education, English, Germanic Languages, History, Law, Music, Philosophy, Romance Languages, Sociology, and Theological Studies. The Science Division includes all other Departments of study represented in the Faculty. The Departments of Mathematics and Psychology are, however, members of both divisions.

Each division has full power to discuss all matters and to make all rules and regulations affecting the admission of candidates for higher degrees to the Departments which it includes, and the requirements for all degrees awarded for work in these Departments. Each division meets at least once annually in the month of April for the election of officers and of committees and for general business.

Each division of the Faculty elects annually a Divisional Committee. "The Committee of Graduate Studies in Arts" consists of not less than four, and not more than twelve members, including the Dean and Vice-Chairman. "The Committee of Graduate Studies in Science" consists of not less than four, and not more than ten members, including the Dean and Vice-Chairman. These Committees, subject to the direction and approval of their proper divisions, examine and pass upon the academic records of all students. They also recommend all candidates for degrees to the Faculty in full session.

The Dean is a member, and Chairman of both divisions, and of all general Committees of the Faculty, and all their meetings are called by him or under his direction.

The Dean consults the appropriate Divisional Committee if a candidate's qualifications for admission are doubtful or if a student's record is unsatisfactory.

There is an Executive Committee of the Faculty, consisting of the Dean and two members appointed by and from each Divisional Committee; this Committee, subject to the direction and approval of the Faculty, deals with all matters of general policy and all executive matters as, for example, the annual calendar, the preparation of the annual announcement, finances, fees, registration, and all matters of routine.

BOARD AND LODGING

I. For Men

No college residences have as yet been built for men students, but dormitory accommodation for about sixty is provided in Strathcona Hall, the home of the Student Christian Association of McGill University. Full particulars may be obtained from the Secretary of the Association, 772 Sherbrooke Street West, Montreal, who will also make arrangements to have students who are strangers to Montreal met on arrival and helped to secure lodgings, if due notice is sent of the station and time of arrival.

Before the opening of the session each year a list of Approved Lodgings, which have been inspected by a representative of the University, is issued by the Lodgings Committee. This list, which gives details of rooms, meals, prices, etc., may be consulted in the Registrar's Office, the Students' Union, Strathcona Hall, and other University Buildings. The list is not sent by mail.

Board and lodging for men may also be obtained in the Diocesan College, the United Theological College, and the Presbyterian College, which are theological colleges affiliated with the University.

Board is furnished in the McGill Union at low rates. The dining room accommodates over 120 students. There is also a lunch counter.

The cost of board and lodging in approved rooms varies from \$30 to \$60 per month. Separately, good board costs from \$25, and a room from \$12 upwards per month.

II. For Women

Hostel. There is a hostel at 3466 University Street for graduate students. Details may be obtained from Miss E. S. Nicholson, the Registrar's Office. (See also page 461).

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Women students may make arrangements to lunch at the Royal Victoria College and are invited to consult the Secretary of this college concerning boarding houses and the following, which they are eligible to join:

- 1. The Alumnae Society of McGill University.
- 2. The University Women's Club, 3492 Peel St.
- 3. The Monteregian Club, 3426 McTavish St.

The last two of these clubs have a number of bedrooms for members.

ADMISSION

Advanced courses of instruction are offered to students who are graduates of any University of recognized standing, and who have at least second class honours, or the equivalent of at least second class honours as granted by McGill University, in the subject in which they desire to take their major work. In the particular case of students proceeding to an M.A. degree in Education, distinction in the general course will be accepted as a qualification for admission. Admission to these advanced courses does not in itself imply candidacy for a higher degree.

CLASSES OF STUDENTS

- 1. Those who are fully approved by the Divisional Committees are termed "graduate students."
- 2. Those qualified students who are permitted to take one or more courses in the Graduate Faculty, without intention of proceeding to a degree, are termed "partial students of the Graduate Faculty."
- 3. Those students who are not sufficiently prepared to rank as "graduate students" can apply to the respective Faculties for admission to undergraduate studies. These students are not registered in the Graduate Faculty, but must register as partial students in the undergraduate Faculty in which they take courses.

REGISTRATION

Applications for registration as a graduate student should be made in triplicate on special printed forms which may be obtained at the Dean's Office. Applicants who are not McGill graduates must submit a certified copy of their complete academic record. These applications, duly signed, must reach the Dean's Office not later than October 8th, 1935, otherwise a late fee of \$5.00 will be charged.

Candidates must consult the Department or Departments in which they intend to study, regarding the course they desire to pursue, in time to attend the regular courses of instruction which begin on September 30th, 1935. Formal application for permission to attend courses must be filled up by the student and signed by the Chairman or Chairmen of these Departments, by the Professors under whom the applicant intends to study, and filed with the Dean of the Faculty of Graduate Studies and Research as early as possible, and at the latest by October 8th.

As soon as the candidate's course has been approved by the Division of the Faculty concerned, he must register without delay at the Registrar's Office. He will not be given credit for attendance until he does so. Candidates must register and pay their fees not later than October 15th, 1935, otherwise the prescribed penalty for late registration will be enforced.

Candidates whose courses extend for more than one year must fill in application forms and register at the commencement of each year of their course. If not registered at the beginning of the academic year, as provided above, the candidate will not be eligible for the degree at the following Spring Convocation.

Candidates who have completed their courses, who have not yet presented their thesis, and who are no longer in residence at McGill University, must, each session, fill in three application forms, and send them to the Dean for approval, and pay the enrolment fee of \$10.00. It is also necessary for them to register at the Registrar's Office, by correspondence, in order to keep their name on the books of the University.

DEGREES

Graduate students may proceed to one or other of the following degrees:—Master of Arts, Master of Science, Master of Engineering, Master of Commerce, Master of Civil Law, Doctor of Philosophy, Doctor of Civil Law, Doctor of Literature, Doctor of Science, Doctor of Music.

COURSES AT MACDONALD COLLEGE

Graduate students who are taking the major part of their work at Macdonald College may go into residence there and can take, when required, other graduate courses given at the University.

Students wishing to reside in Macdonald College should send in their application for accommodation to the Registrar, Macdonald College, Que., as soon as possible.

Any fees in connection with courses taken at Macdonald College are payable to the Bursar of Macdonald College.

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FELLOWSHIPS, SCHOLARSHIPS AND MEDALS

In several Departments graduate students are eligible for demonstratorships and instructorships. Information concerning these may be obtained from the Chairman of the Department concerned.

THE GOVERNOR-GENERAL'S SILVER MEDAL is awarded for graduate research work in Science.

THE McGill Delta Upsilon Memorial Scholarship.—Founded by the McGill Chapter of the Delta Upsilon Fraternity in memory of the members of that Chapter who gave their lives in the Great War. This scholarship is open to graduates of the University. The Selection Committee will consider:— (a) The general scholarship of the candidate; (b) His need of financial assistance for further study; (c) The general usefulness to the community of the special branch of study he proposes to follow; (d) The likelihood that the candidate will reflect credit on the University. The present value of the scholarship is about \$700.

Application should be made to the Registrar before April 1st.

The Leroy Memorial Fellowship in Geology.—This fellowship of \$500.00, established by some friends of Captain O. E. Leroy, (Arts, 1895), who was killed in the Battle of Passchendaele, in October, 1917, is awarded annually to a student who desires to proceed to post-graduate studies in Geology at McGill University. The recipient may be called upon to assist in the teaching work of the Department. The award is made by the Chairman of the Department of Geology and Mineralogy in consultation with the Principal.

THE DR. T. STERRY HUNT RESEARCH SCHOLARSHIP IN CHEMISTRY.—This Scholarship of the value of \$650 is open to graduates in Chemistry and Chemical Engineering who have completed the course for the degree of M.Sc., M. Eng. or Ph.D. and have shown high capacity for research.

RESEARCH FELLOWSHIPS.—Three research and teaching fellowships, of \$600 each, have been established in the Mining Department—one endowed in memory of the late Sir William Dawson, one endowed by the late Dr. James Douglas, and a third, of a slightly less value, supported by graduates in Mining in memory of the late Dr. B. J. Harrington. All three fellowships are awarded annually if suitable candidates offer.

THE JOHN BONSALL PORTER SCHOLARSHIP.—This scholarship, founded by Dr. W. W. Colpitts, is open to graduate students proceeding to the degree of M.Eng. in Civil Engineering. It is expected that the income of the scholarship for 1935-36 will be \$200. Applications, which in the case of graduates of other universities, must be accompanied by certified

statements of academic standing and letters of recommendation, should be in the hands of the Dean of the Faculty of Engineering not later than July 31st.

SCHOLARSHIP IN METALLURGICAL ENGINEERING—This scholarship of the value of \$80 per month during the University session is offered from time to time to a student graduating in Metallurgical Engineering to enable him to study for the M.Eng. or M.Sc. degree. The holder will be expected to assist with the teaching work of the Department.

HUGH McLennan Memorial Scholarship.—This scho'arship was established by the Hon. John Stewart McLennan and Dr. Francis and Miss Isabelle McLennan in memory of Hugh McLennan, son of the Hon. John Stewart McLennan, killed at the Battle of Ypres in 1915. The scholarship, the present value of which is \$750, will be awarded in May, 1936 to the student graduating in Architecture who during his course has shown the greatest capacity in the solution of problems and who gives promise of creative ability.

The Allen Oliver Fellowship.—This fellowship has been established by Mrs. Frank Oliver, of Edmonton, Alta., in "proud and loving memory of her son, the late Allen Oliver, M.C., B.A.,* Lieutenant 26th Battery, C.F.A., who was killed in action at the Somme on November 18th, 1916." The fellowship is awarded annually to the student who stands highest in first class honours in the Department of Economics and Political Science at the final B.A. examination, and the holder is required to pursue his studies in Economics and Political Science in McGill University or elsewhere. The present value of the scholarship is about \$400.

Macdonald College Agricultural Alumni Association Graduates Scholarship.—In memory of graduates and undergraduates of the Faculty of Agriculture who died in service during the Great War, 1914-1918; created, in connection with the Centennial Campaign, 1920, through subscriptions of graduates, undergraduates, members of the staff and other friends, of a present value of \$200 and available to any graduate in Agriculture of Macdonald College (McGill University) for graduate work in Agriculture at any college or university of recognized standing. The holder is chosen by a committee appointed by the executive of the Macdonald College Agricultural Alumni Association, and application should be addressed to:—Mr. Emile A. Lods, General Secretary, Macdonald College, P.Q.

^{*}Lieut. Oliver was an honour graduate in 1915 in the Department of Economics and Political Science.

Science Scholarships Granted by Her Majesty's Commissioners for the Exhibition of 1851.—These scholarships, of at least £250 sterling a year, are tenable for two, or, in rare instances three years. They are limited, "to those branches of science, the extension of which is especially important to our national industries." The holder is required to devote himself to research, the particular nature of which must be approved by the Commissioners.

Three of these Scholarships which are tenable at any institution approved by the Commission are allotted to Canada each year, the scholars being chosen by the Commission from the nominees of certain Universities, among which McGill is included.

Candidates should apply, not later than April 1st, through the Chairman of their Department. Details concerning the regulations may be obtained from the Registrar's Office.

NATIONAL RESEARCH COUNCIL SCHOLARSHIPS.—Bursaries, Studentships, and Fellowships, which in 1935 had the values of \$450, \$500, and \$550 respectively, will probably be awarded in 1936 by the National Research Council to highly qualified graduates in Science. They are open on equal terms to men and women, whose age should not exceed 32. In 1935 the last day for receiving applications was March 1st. Further particulars may be obtained from the Registrar's Office.

THE MOYSE TRAVELLING SCHOLARSHIPS.—Two scholarships of the value of \$1,250 each, known as The Moyse Travelling Scholarships, tenable for one year, have been founded by Right Honourable Lord Atholstan, to commemorate the "splendid services of Dr. Charles E. Moyse, for forty-two years Professor of English, during sixteen of which he was Dean of the Faculty of Arts and Vice-Principal of the University."

These scholarships are awarded by the Faculty of Arts and Science, one for distinction in literary subjects, and the other for distinction in scientific subjects. If a deserving applicant in one of these divisions is not forthcoming, both scholarships may be awarded to applicants who belong to the other. The holder must devote the period of the tenure of the scholarship to advanced study, preferably in a British or European university, but not to the exclusion of other universities.

Applications are to be made to the Dean of the Faculty of Arts and Science, before the first of April each year.

THE GUY DRUMMOND MEMORIAL SCHOLARSHIP.—This scholarship, endowed by the late Guy M. Drummond, and tenable for one year, is awarded annually to a graduating student in the Department of Economics

and Political Science. The value of the scholarship is the income derived from a capital sum of \$45,190 to cover a year of study divided between Paris and McGill and leading to the M.A., or, in special circumstances, a larger amount for a student who spends a whole academic year in Paris and then a year studying for the M.A. at McGill. The holder may attend the Graduate Faculty of McGill University for one year before or after his study in Paris, or may go to France in the summer following his appointment, attend the Ecole Libre from its autumn opening until the New Year, and then return to resident work at McGill, being eligible for the M.A. degree in May of that year.

ADAMS SCHOLARSHIP.—A scholarship of \$300, presented by Professor and Mrs. F. D. Adams, will again be available in 1935-36 for a graduate student in the Department of Geological Sciences.

Post-Graduate Scholarships Granted by the Imperial Order of the Daughters of the Empire.—Nine are offered annually—one for each province. They are of the value of \$1,400 and have been founded "to enable students to carry on studies at any university in the United Kingdom, in British and Imperial History, the Economics and Government of the Empire and Dominion, or any subject vital to the interests of the Empire." Applications for the Scholarships to be held in 1936-37 should be made before October 1935.

Full details may be obtained from the Provincial Educational Secretary of the Order in any Canadian Province. In Quebec the address is Room 1111, Mount Royal Hotel, Montreal.

THE RHODES SCHOLARSHIPS.—These scholarships of £400 a year are tenable for two years at the University of Oxford. A third year may be granted under certain conditions.

Candidates must be British subjects with at least five years domicile in Canada and be between the ages of nineteen and twenty-five.

Two scholars are chosen annually from the Province of Quebec, and men students in any Faculty may apply.

Applications must be in the hands of the Secretary of the Provincial Selection Committee not later than November 10th.

Further details of tenure, eligibility and qualifications, and application forms may be obtained from the Registrar's Office, or the Provincial Secretary, Mr. A. D. P. Heeney, 215 St. James St. West.

ROYAL SOCIETY OF CANADA FELLOWSHIPS.—Ten annual research fellowships, endowed by the Carnegie Corporation, will be awarded in 1936. They are of the value of \$1,500, are open to men and women on equal terms, and are tenable normally outside Canada only. Candidates should

have at least a Master's degree and their age should not exceed 32. In 1935 the last day for receiving applications was February 1st. Further particulars may be obtained from the Registrar's Office.

University Women's Federation Travelling Scholarship.—
The Scholarship of the Canadian Federation of University Women, of
the value of \$1,250, available for study and research work, is open to any
woman holding a degree from a Canadian University. In general, preference is given to those candidates who have completed at least one or
two years of graduate study and have a definite research in preparation.
The award is based on evidence of character and ability of the candidate
and promise of success in the subject to which she is devoting herself.

The choice of the University at which the successful candidate is to pursue her study or research work is left to the Committee of Selection in consultation with the candidate.

Full information can be obtained from the Convenor of the Scholarship Committee, Miss Margaret M. Cameron, University of Saskatchewan, Saskatoon, Sask.

Applications and testimonials must be received not later than February 1st.

Social Research Fellowships.—There are a number of fellowships in the Department of Social Research for graduate work in Economics, Sociology, Education, Psychology, etc. For details apply to the Director, Mr. L. C. Marsh. (See also page 438.)

WADDELL LOAN FUND IN ENGINEERING

Loans from this Fund, which was founded by J. B. Waddell, Esq., may be made to graduate as well as undergraduate students in any Department of Engineering. Application should be made to the Dean of the Faculty of Engineering.

ITALIAN GOVERNMENT SCHOLARSHIP

A Scholarship entitling the holder to a year of study in Rome (free tuition, free lodging and free board) for the 1935-36 session has been offered to McGill University by the Italian Government. Applications should be made in writing to the Registrar, before the 1st of August, 1935.

BURSARIES

Ten bursaries of \$100 each, two for each of the five sessions from 1934-35 to 1938-39 have been given to the University by the Montreal Alumni Club of the Sigma Alpha Mu Fraternity. These bursaries are open to men students in any Faculty. Need and scholarship determine the award. Applications in writing should be made to the Registrar before the end of June.

Three bursaries of \$100 each for the 1935-36 session have been given to the University by the Mount Royal Lodge of Bnai Brith. These bursaries are open to men and women students in any Faculty. Need and scholarship will determine the award. Applications in writing must reach the Registrar before the end of June 1935.

FELLOWSHIPS AND SCHOLARSHIPS OPEN TO GRADUATES IN MEDICINE

THE A. A. BROWNE MEMORIAL FELLOWSHIP.—With \$10,000 received from the A.A. Browne Memorial Fund, the A.A. Browne Memorial Fellowship has been established. It is open to graduates of any recognized Medical School and is for the advancement of medical science, special preference being given to the subjects of Obstetrics and Gynæcology.

THE JOHN McCrae Fellowship.—A fellowship of approximately \$800, founded in 1918 as a yearly donation by Mr. H. J. Fuller, of New York, in memory of the late Lt.-Col. John McCrae, for research in Experimental Surgery. Established as a permanent fellowship in 1920 by Mr. Fuller and the Canadian Fairbanks-Morse Company.

THE HIRAM N. VINEBERG FELLOWSHIP in Gynæcology, of the value of \$250 per annum, donated in 1924 by Dr. Hiram N. Vineberg, of New York, who graduated at McGill University in 1878.

THE CLARA LAW FELLOWSHIP of \$1,200 per annum founded in 1927 by Mrs. J. R. Fraser for research in the laboratory of the Department of Obstetrics and Gynæcology.

FEES

1.	For degree of M.A. (non-science subjects)	
	M.Com. and M.C.L.	
	First Year Students	\$140.00
	Any subsequent year of residence	125.00
2.	For degree of M.A. (Science subjects involving laboratory	
	work)	
	M.Sc., and M.Eng.	
	First Year Students	160.00
	Any subsequent year of residence	150.00
3.	For degree of Ph.D. (non-science subjects)	
	First Year Students (See Section 7)	140.00
	Second Year Students	125.00
	Third Year Students	125.00
	Any subsequent year of residence	25.00
4.	For degree of Ph.D. (Science subjects involving Laboratory	
	work)	
	First Year Students (See Section 7)	160.00
	Second Year Students	
	Third Year Students	
	Any subsequent year of residence	150.00
5.	A student who has completed his course but has not comp	oleted his
	thesis pays an annual registration fee of \$10.00, and an annu	al library

5. A student who has completed his course but has not completed his thesis pays an annual registration fee of \$10.00, and an annual library fee of \$5.00 if he uses the library. Such students must register at the beginning of each session.

6. A student permitted by his department to take the work for the Master's degree spread over more than one year pays the first year's fee, and a fee of \$25.00 for each subsequent year of residence. If a course or courses have to be repeated the regular fee applies.

7. The year or years of study for the Master's degree counts as the first year of the Ph.D degree.

8. A student permitted by his Department to take the work for the Ph.D degree spread over more than three years pays a fee of \$25.00 for each year of residence subsequent to the third year. If a course or courses have to be repeated the regular fee applies.

 Any student taking a lecture course or doing laboratory work or receiving guidance or consultation from any member of the staff is considered to be in residence. He must register and pay fees as above.

10. The full fees are inclusive, and cover tuition, laboratory, graduation, library, health and athletics and Graduate Students' Association.

11. Students taking qualifying courses register in the Faculty in which they are taking the courses, and pay the partial tuition fee of that Faculty. The total tuition fee, however, will not be more than the full fee payable in the Faculty of Graduate Studies and Research.

12.	Graduation Fee for the degree of D.Litt., D.C.L., D.Sc., and Mus.Doc	
13.	A candidate for any of the above degrees who fails in his thesis may present a revised thesis once again, in a subsequent year, upon payment of the following fees:	
	Master's Degree	
	granted "honoris causa."	
14.	For degree conferred "in absentia"	
15.	Fees for Supplemental Examinations, granted under special circumstances, by permission of the Dean, are payable	
16.	in advance. per paper	
17.		
18.	Fees are due and payable at the Bursar's Office on or before October 15th. If paid by instalments the second instalment is due on February 1st. An additional \$2 is charged for payment by instalments, An additional \$2 is charged for payment after the specified dates.	
19.	Immediately after November 15th a list of students who have not paid their fees is sent to the Dean of the Faculty, who removes their names from the register of attendance. Such students cannot be re-admitted to any class until instructions have been received from the Bursar that the fees have been paid.	
20.	Late fees are charged as follows:— Application forms, after October 8th	
	Each student in Chemistry is required to deposit the sum of \$20 as Caution Money, to cover 10% of the cost of all chemicals and other supplies used by the student, and damage done to furniture, apparatus, books, etc. This amount, less deductions, is returned at the close of the session	

22. All resident students with the exception of those at Macdonald College, are entitled to the following health and athletic privileges:—

of the session.

(a) Medical examination; daily consultation service and hospital treatment, as furnished to undergraduates.

- (b) Tennis privileges during the session and summer privileges on the same basis as undergraduates. (Present summer fee \$5.00.)
- (c) Social skating privileges on the campus rink.

(d) Opportunities for exercise with various athletic clubs and eligibility for intercollegiate and other teams.

Students at Macdonald College are entitled to the use of the rinks and Residence Reading Room and membership in the Students' Council and Literary and Debating Societies. Graduate students who desire to take part in Athletics may do so upon the payment of the regular undergraduate subscription. A special fee is payable by those who desire student publications and the use of tennis courts.

- All students in the Faculty of Graduate Studies and Research are members of the Graduate Students' Association.
- 24. All fees are payable in Canadian currency.

MAJOR AND MINOR SUBJECTS

A higher degree is granted in the Faculty of Graduate Studies essentially for work in one subject, known as the student's major subject. In certain cases, a minor subject may also be taken if this subsidiary subject is approved by the Chairman of the Department which has charge of the major subject and by the Chairman of the Department of the minor subject. A student should determine whether he is to take a minor subject or not by consulting the Chairman of the Department of his major subject.

COGNATE SUBJECTS

Certain allied or "cognate" courses may also be taken in conjunction with the major subject. These must be entered on the application form and signed by the Chairman of the Department concerned.

RESIDENT GRADUATE STUDY

1. Normal Procedure for the Master's Degree.

When a student enters the Faculty he interviews the Chairman of the Department of his major subject and is assisted in the selection of his courses. He is then directed to consult the professor under whose general direction his research work and his thesis will be completed. The courses and the subject of the thesis have then to be submitted to the Dean for approval by the Faculty. Three application forms must be obtained from the Dean's secretary, filled, signed, and returned before October 8th. Fees must be paid before October 15th, as soon as the application form has been marked approved and returned.

At the end of the first session the student must pass the examinations of the courses he has taken and the marks or classes he obtains are part of his qualifications for the degree. If the thesis is now accepted the student is eligible for the Master's Degree. At least one full session or two half-sessions of resident study at McGill University is required for a Master's degree.

During his work for the Master's Degree and for the Ph.D., if he continues, the student is usually given opportunities of presenting short papers and conducting occasional classes.

2. Continuation for the Ph.D.

A student who has obtained his Master's Degree at McGill University or elsewhere and is proceeding to a Ph.D. counts the work done for the former as the first year of his resident study for the Doctor's degree. With the assistance of his professors, the student selects courses, which must be approved, and continues his researches. Application forms must be filled and fees paid, as stated above.

At the middle or end of his second year he must write a searching examination upon the whole major subject. In his third year the number of lecture courses is diminished and the student concentrates upon his research work and his thesis. If his thesis is accepted there is a final oral examination on his research work and thesis.

The above gives the normal procedure of a continuously successful student, but students may take longer to obtain the degree, which is awarded only for excellence of standard and by no means for time of residence. In some cases students proceed to a Ph.D. without a Master's degree, but this is not generally recommended.

3. Special Concessions for Civil Servants

With regard to the M.Sc. and M.Eng. (which may be the first year of the Ph.D. course), the following concessions are approved:

(1) Candidates for the degrees of M.Sc. or M.Eng. who are graduates of McGill University and have had two or more years' experience in a Government Department, performing as their main duty, work of the same type as that proposed for research, may, on recommendation of a Department and with the approval of the Faculty in full session, have their residence requirements reduced to one-half session only. It is understood that these candidates must take the usual final examination in all subjects required.

No special concessions can be made to Civil Servants who are graduates of universities other than McGill.

(2) A Government laboratory may be approved by the Faculty as a research institution (see page 388).

GENERAL RULES

1. Members of the teaching staff of the University who are also students in the Graduate Faculty and who give more than three hours of lectures or six hours of conference work or twelve hours of supervisory work in laboratories per week; or any student doing an equivalent amount of work inside or outside the University, may not obtain the Master's degree in one year, and will require at least four years for the

degree of Ph.D. Members of the teaching staff only may apply in writing to the Dean, on the written recommendation of the Chairman of the Department, to pay half fees for each of two years that shall count as one year of residence.

- 2. No full-time student registered in any professional Faculty of the University may register for a graduate degree without the special permission of both Faculties in full session.
- 3. Candidates for the Master's degree will be admitted to the Faculty only if they have obtained at least second class honours at McGill University, or the equivalent of second class honours, in the subject or subjects they propose to study. In any case, the approval of the Department concerned and of the Arts or Science Division Committee is required for admission to the Graduate Faculty.

Candidates who cannot comply with this requirement must make good their deficiencies by at least one preparatory year at the University devoted mainly or wholly to advanced undergraduate study in these subjects.

- 4. Each Department has full liberty to recommend or require a student to take a course or courses in another Department.
- 5. A candidate with a given higher degree may be permitted to proceed to a second degree of the same kind, but in another subject, provided that the usual requirements for the degree are entirely fulfilled and approved as usual by the Department concerned.

RESEARCH ASSOCIATES

Chairmen of Departments may recommend annually to the appropriate Divisional Committee, the names of research workers not proceeding to a degree, and not on the staff, for the title of "Research Associate." After their names have been approved by the Divisional Committee, they will be reported to the Faculty of Graduate Studies and Research for endorsement. Lists of such Research Associates will be filed in the Offices of the Dean, Registrar, and Bursar, and names of Research Associates may appear in the Announcement. Recommendations should be made at the beginning of each session.

CLASSIFICATION OF MARKS

100-75%	First Class
74-60%	Second Class
Below 60%	Failure

REGULATIONS FOR THE DEGREE OF MASTER OF ARTS (M.A.)

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Arts is provided in the following Departments of study, which rank as "subjects":—

Botany Germanic Language and Literature

Chemistry History

Chemistry (Agricultural) Mathematics

Classics Physics

Economics and Political Science Philosophy

Education Psychology

English Language and Literature Romance Languages and Literature

Genetics Sociology
Geological Sciences Zoology

Certain Theological studies may be taken as a minor subject only. See page 435.

The requirements for the degree are as follows:-

- 1. Candidates must hold the degree of B.A. They must have obtained at least a second class in an Honours course at McGill University, or its equivalent elsewhere in the subject or subjects which they propose to study.
 - 2. One or two subjects may be taken.
- 3. Candidates must select one major subject. Minor or cognate subjects may be selected with the consent of the Chairman of the Department in which the major subject is taken, subject to the approval of the Chairmen of the other Departments concerned. The candidate must pass the requisite examinations in the selected courses of his subject or subjects.
- 4. The candidate must also present a thesis on some topic connected with his major subject. The title of his thesis must have been previously submitted to the Chairman of the Department concerned and to the Divisional Committee concerned for their approval in writing. The thesis must be in some measure a contribution to knowledge and must also be written in good literary style.

For further information regarding theses, see page 391.

REGULATIONS FOR THE DEGREE OF MASTER OF SCIENCE (M.Sc.)

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Science is provided in the following Departments of study:

Agronomy

Anatomy

Animal Nutrition and Breeding Bacteriology (Agricultural)

Biochemistry

Botany Chemistry

Chemistry (Agricultural)

Civil Engineering and Applied Mechanics

Electrical Engineering

Entomology

Experimental Medicine and Surgery Psychology

Genetics

Geological Sciences

Horticulture Mathematics

Mechanical Engineering
Metallurgical Engineering

Mining Engineering

Neurology and Neurosurgery

Parasitology Pathology Pharmacology Physics

Physiology Plant Pathology

Zoology

The requirements for the degree are as follows:

- 1. Candidates must hold a Bachelor's degree with at least second class in an Honours course at McGill University, or its equivalent. Candidates with an M.D. degree must have attained high standing.
- 2. A candidate must select one major subject. Minor or cognate subjects may be selected with the consent of the Chairman of the Department in which the major subject is taken, and with the consent of the Chairmen of the other Departments concerned. The candidate must pass the requisite examinations in the selected courses of his subject or subjects.
- 3. The candidate must also present a thesis on some topic connected with his major subject. The title of the thesis must have been previously submitted to the Chairman of the Department and to the Divisional Committee concerned, and have received their approval in writing. The thesis must be in some measure a contribution to knowledge and must also be written in good literary style.

For further information regarding theses, see page 391.

REGULATIONS FOR THE DEGREE OF MASTER OF ENGINEERING (M.Eng.)

To be eligible for the Degree of Master of Engineering, the candidate must hold the Degree of Bachelor of Engineering, or an equivalent degree, and his undergraduate academic rank must, in general, be equivalent to high second-class standing.

The establishment of the Degree of Master of Engineering does not prevent a properly qualified holder of the Degree of Bachelor of Engineering, or the equivalent, from proceeding to the Degree of Master of Science in pure science.

Instruction for the degree of Master of Engineering is given in the following Departments of study, which rank as subjects, in which definite courses may be selected:

Civil Engineering Electrical Engineering Mechanical Engineering Metallurgical Engineering Mining Engineering

A candidate must select one major subject. Minor or cognate subjects may be selected with the consent of the Chairman of the Department in which the major subject is taken, subject to the advice and consent of the Chairmen of the other Departments concerned. The candidate must pass the requisite examinations in the selected courses of his subject, or subjects.

The candidate must also present a thesis on some topic connected with his major subject. The title of the thesis must have been previously submitted to the Chairman of the Department and to the Divisional Committee concerned, and have received their approval in writing. The thesis must be in some measure a contribution to knowledge and must also be written in good literary style.

For further information regarding theses, see page 391.

REGULATIONS FOR THE DEGREE OF MASTER OF CIVIL LAW (M.C.L.)

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Civil Law is provided in the following Departments of study which rank as "subjects."

> Roman Law Civil Law Commercial and Maritime Law Public Law

(Courses in all subjects will not necessarily be offered each year.)

The requirements for the degree are as follows:

- 1. Candidates must hold the degree of B.C.L. from McGill University, or its equivalent. They must be well qualified students who have obtained at least second class honours in the subject which they propose to take and in the course as a whole.
 - 2. One only of the above subjects may be taken.
- 3. The candidate must also present a thesis on some topic connected with his subject, see page 391.
- 4. (a) Each candidate is required to take at least one course in his subject involving at least one year of resident study.
- (b) In addition he is required to meet in personal conference, at least once a week, the professor under whose supervision he is preparing his thesis.

For further details consult the Secretary of the Faculty of Law.

REGULATIONS FOR THE DEGREE OF MASTER OF COMMERCE (M.Com.)

- 1. The candidate must hold the degree of B.Com.
- 2. Graduates of the School of Commerce at McGill must have passed the full course in Economics laid down in the undergraduate curriculum with at least a creditable average second class standing.
- 3. Graduates of other Universities must offer the equivalent of the McGill requirements in Economics and Political Science.
- Application for admission must be approved by the Director of the School of Commerce and the Chairman of the Department of Economics.
- 5. The candidate must pass the requisite examinations in the selected courses of his subjects for the Master's degree.
- 6. The candidate must also present a thesis on some topic connected with his major subject. The title of his thesis must have been previously submitted to the Chairman of the Department, and to the Divisional Committee concerned, for their approval in writing. The thesis must be in some measure a contribution to knowledge and must also be written in good literary style.

REGULATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.)

1. Candidates for the degree of Doctor of Philosophy must hold the degree of B.A. with Honours, or B.Sc. with Honours, or B.Eng. with Honours, or B.S.A. with Honours, or M.D. with Honours from McGill University or its equivalent.

- 2. They must follow a course of at least three years' resident study at a University or other institution of higher learning or research. Of these three years, at least one year for graduates of McGill and two years for candidates who are not graduates of McGill, must be spent at this University, including preferably the final year. The other years may be spent at institutions approved by the Faculty. Special exceptions regarding resident study may be made with the consent of the proper Divisional Committee and the Faculty. The evaluation of work done in other institutions for the degree is decided by the proper Committee of the Division of the Faculty, and this Committee may require the student to attend before them to report on his work, and may require him to pass a special examination on his work.
- 3. They must select one major subject. Minor or cognate subjects may be selected, with the consent and approval of the Chairman of the Department in which the major subject is taken, subject to the advice and agreement of the Chairmen of the other Departments concerned.

Courses leading to the degree of Doctor of Philosophy are offered in the following as major subjects:—

Biochemistry
Botany
Chemistry
Economics and Political Science
Entomology
Experimental Medicine
and Surgery
Genetics
Geology
History

Neurology and Neurosurgery
Parasitology
Pathology
Pharmacology
Physics
Physiology
Plant Pathology
Psychology
Zoology

In special cases, Departments may be able to provide courses in other subjects which will lead to this degree. Candidates, therefore, desiring to proceed to the degree of Doctor of Philosophy in other Departments than those mentioned above should make direct application to the Dean of Graduate Studies and Research, asking whether courses in such subjects can be provided.

4. The course of study which the candidate desires to follow must, before he enters upon it, have been submitted to the Chairmen of the several Departments concerned and to the Divisional Committee concerned, and have received their written approval

Preliminary Examination

5. The first two years include instruction, training and direction in the candidate's field of study, with the object of giving him a knowledge of his particular subject and its relation to cognate branches of learning and of preparing him for independent investigation.

The candidate's preliminary examination is held at the end of the second year, or at a time selected by the Chairman of the major Department, unless otherwise specified by Departmental regulations approved by the Faculty. This examination covers all graduate work previously taken by the candidate, including his prescribed reading and may also include any work fundamental thereto. The candidate must show that he possesses a good general knowledge of the whole science or branch of learning which he has selected as his major subject. The examination is both written and oral.

The result of this examination determines whether the candidate is allowed to proceed to his degree. The final year is devoted chiefly to the preparation of his thesis.

After his thesis has been received and approved, a special and more searching final oral examination on the subject of his thesis and subjects more intimately related to it will be held. This will be conducted in the presence of a Committee of at least four members of the Faculty of Graduate Studies.

6. Every candidate must satisfy the Faculty of Graduate Studies and Research that he has a reading knowledge of French and German.

The examination is set by the Department in which the candidate is taking his major; the passages chosen will be typical of the literature of his major subject.

Candidates are advised to take one language at the commencement of their first year and the other at the commencement of the second year, but both language tests should be passed not later than one month before the preliminary Ph.D. examinations. These examinations will be held during the first ten days of December without fee. Examinations may be held at other dates only under exceptional circumstances, and with the approval of the Dean, in which case a fee of \$5.00 per candidate must be paid in advance, for each examination.

Thesis

7. The thesis for the Doctor's degree must display original scholarship expressed in satisfactory literary form and be a distinct contribution to knowledge. The subject of this thesis must have been approved, in writing, by the Chairman of the Department in which the major subject is taken, and also by the Faculty of Graduate Studies and Research, at least twelve months before the date of the final examination.

Theses for the Fall Convocation must be in the hands of the Dean of the Faculty on or before September 5th.

- 8. Three copies of the thesis must be provided by the candidate.
- 9. The regulations concerning theses are stated on pages 391, 392. Special regulations for the Ph.D. in Economics are stated on page 405, and in History on pages 416, 417.

REGULATIONS FOR THE DEGREE OF DOCTOR OF CIVIL LAW (D.C.L.)

Any person who has graduated as a B.C.L. from McGill University may after seven years from such graduation proceed to the degree of Doctor of Civil Law, provided he has distinguished himself by eminent services in the domain of law, and provided he has written a thesis on a subject previously approved by the Faculty of Graduate Studies and Research, and that such thesis has been adjudged by that Faculty to be a valuable contribution to legal science. The candidate may, instead of a thesis, submit a published book or books dealing in a scientific way with some branch or branches of law. A very high standard is required for this degree, but it does not call for any resident graduate study in the University.

REGULATIONS FOR THE DEGREE OF DOCTOR OF LITERATURE (D.Litt.)

Bachelors of Arts of McGill University who are graduates of at least seven years' standing, and have distinguished themselves by special research and learning in the domain of arts and literature, may submit their published works to the Faculty of Graduate Studies and Research and apply for the degree of Doctor of Literature. A very high standard is required for this degree which does not call for resident graduate study at the University. Graduates of other Universities are not eligible for this degree. All applications should be addressed to the Dean of the Faculty of Graduate Studies and Research, McGill University.

REGULATIONS FOR THE DEGREE OF DOCTOR OF SCIENCE (D.Sc.)

Bachelors of Arts, Bachelors of Science, Bachelors of Engineering or Doctors of Medicine of McGill University who are graduates in one or other of these Faculties of at least seven years' standing and who have distinguished themselves by special research and learning in the domain of science, may submit their published works to the Faculty of Graduate Studies and Research and apply for the degree of Doctor of Science. A very high standard is required for this degree, but it does not call for resident graduate study at the University. Graduates of other Universities are eligible for this degree, only if they have been for a minimum of seven years members of the professorial staff of McGill University. All applica-

tions should be addressed to the Dean of the Faculty of Graduate Studies and Research, McGill University.

REGULATIONS FOR THE DEGREE OF DOCTOR OF MUSIC (Mus. Doc.)

Bachelors of Music of McGill University, after a lapse of a period of seven years from the time of taking the degree of Bachelor of Music, may proceed to the degree of Doctor of Music, the requirements for which are a composition in extended form, such as an oratorio, opera or cantata. This exercise must have as its first number an introductory orchestral movement in the form of a concert overture, must contain some eight-part writing and fugal treatment, and must be scored for a full orchestra. If preferred, a candidate may present a composition scored for full orchestra in the form of a symphony, symphonic poem or tone poem occupying no less than forty minutes in performance. The University may, if it elects to do so, order the candidate to give a public performance of this original and unaided composition, when approved by the examiners, in some public building connected with the University. In addition, an examination in the higher forms of composition is necessary. together with a critical knowledge of the full scores of certain prescribed work.

Graduates of other Universities can, on payment of the necessary fees, be admitted "ad eundem" to the Degree of Mus. Bac., if they wish to proceed to the further degree of Mus. Doc., provided they secure permission to do so from the Executive of the Faculty of Graduate Studies and Research, the period of seven years referred to above to be counted from the date on which they received the degree of Bachelor of Music from their own University.

REQUIREMENTS FOR MUS. DOC.

Harmony up to eight parts; Counterpoint up to eight parts (Strict and free); Instrumentation; Canon four and two; Fugue up to five parts; History of Music; Form and Analysis based on knowledge of Beethoven's nine symphonies, Brahms' second and third symphonies, a Strauss Tone Poem, Death and Transfiguration, Wagner's Meistersinger and Tannhauser Overtures, either Bach's St. Matthew Passion or Beethoven's Mass in C, and Mozart's Magic Flute or Wagner's Parsifal.

REGULATIONS CONCERNING THESES

In the case of students who wish to graduate at the Spring Convocation, all theses for a Master's degree must be handed to the Dean of the Faculty of Graduate Studies and Research not later than April 29th. Theses for the degree of Ph.D. must be handed in on or before April 25th.

All theses for the degree of Master of Science, or of Engineering which involve experimental work, must be in the hands of the Dean not later than May 10th.

In the case of students who wish to graduate at the Fall Convocation, their theses must be in the hands of the Dean of the Faculty of Graduate Studies and Research not later than September 5th.

Owing to the fact that all theses submitted by successful candidates for higher degrees are bound and placed in the Library, candidates for such degrees are advised that the Faculty of Graduate Studies and Research requires these to be prepared in a uniform manner and in accordance with the following specification:—

(1) The paper is to be of uniform size, 8½ x 11 inches, and of substantial quality.

(2) The left-hand margin is to have a uniform width of about 1½ inches. Drawings larger than the prescribed page should be folded in the manner most suitable for binding.

(3) All theses must be typewritten and in triplicate. Ultimately one copy is deposited in the McGill Library, one in the Departmental Library, and one is returned to the candidate.

(4) No binding is necessary, but the loose sheets must be placed, unfolded, in a manila envelope in the order of their pagination. On the outside of each envelope must be written clearly the name of the candidate, title of thesis, degree, date, and Copy I, II or III.

(5) All copies of the thesis must be double-spaced and free from typographical and other errors, otherwise they will be returned to the candidate for revision, with possible consequent delay in the granting of the degree.

(6) Every thesis should have an abstract or sufficient table of contents, and a thorough bibliography on the subject. Scientific theses should also contain an introductory historical statement of previous work or investigation, and a summary. In the case of the Ph.D. degree, there should be a clear statement of the claim of original work or contribution to knowledge made by the author.

(7) In the case of candidates presenting themselves for the degree of Doctor of Science, Doctor of Literature or Doctor of Civil Law, two copies of the book or books—or for the degree of Doctor of Civil Law, should a thesis be substituted, two typewritten copies of the thesis—must be submitted to the Dean of the Faculty of Graduate Studies and Research not later than *February 14th* of the year in which the candidate desires to take the degree.

SUMMARIES OR ABSTRACTS OF THESES

(8) Three copies of a statement must also be presented, on a separate sheet, giving the author, title of thesis, and a summary not exceeding 150 words. These statements will be printed and circulated to various Libraries, to the Deans and Chairmen of Departments at McGill University, to members of the Association of American Universities and to Canadian Universities. For all particulars, apply to the Secretary's Office, Macdonald Physics Laboratory.

COURSES OF GRADUATE STUDY

DEPARTMENT OF AGRONOMY

(Macdonald College)

PROFESSOR OF AGRONOMY:—ROBERT SUMMERBY

Assistant Professors:—{L. C. Raymond E. A. Lods

LECTURER:-J. N. BIRD

The Department is well equipped to conduct research with crop plants particularly in relation to breeding.

All the important periodicals, scientific journals, books and bulletins on Agronomy and related subjects, are available to students in either the McGill, Macdonald College or Agronomy Department Libraries.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

Candidates who take Agronomy as a major subject must have had a good training and achieved high standing in Agronomy, Botany, Chemistry, and Genetics. Those who have not had adequate training in these subjects must rectify any such deficiency.

A. Experimentation.

One lecture and two laboratory periods per week for one term.

Professor Summerby.

B. Forage Crops. (a) Hay and Pasture, (b) Roots and Corn.
 Two lectures and two laboratory periods per week for two terms.
 Professor Raymond and Mr. Bird.

C. Grain Crops.

Three lectures and three laboratory periods per week for one term.

Professor Lods.

D. Seminar.

Fortnightly, during the year. Professor Summerby and staff.

Students whose major subject is Agronomy may elect, or may be required to take courses in allied subjects.

It is recommended that candidates spend at least one summer in the Department before or during the course.

DEPARTMENT OF ANATOMY

PROFESSOR OF ANATOMY:-

Professor of Histology and Embryology:—J. C. Simpson Assistant Professor of Anatomy:—J. S. Baxter

The Department offers facilities for advanced work leading to the degree of Master of Science.

Course for the Degree of Master of Science in Human Anatomy.

Prerequisites for entrance to the course:-

- i. The candidate must either (a) have obtained the M.D. degree with good standing, or (b) hold a B.A. or B.5c. degree and be proceeding to the M.D. degree, which is to be obtained before the granting of the M.Sc.
- ii. The candidate must have attained honour standing in the undergraduate course of Human Anatomy, or its equivalent.

Requirements for the degree:-

In all cases candidates must consult the Chairman of the Department for further details.

DEPARTMENT OF ANIMAL NUTRITION AND BREEDING

Nutrition, Genetics

CHAIRMAN OF THE DEPARTMENT AND PROFESSOR OF ANIMAL PATHOLOGY:—
R. L. CONKLIN

Professor of Genetics:—C. L. Huskins (Department of Genetics, McGill)

Associate Professor of Animal Nutrition:—E. W. Crampton
Assistant Professor of Poultry Husbandry:—W. A. Maw
Assistant Professor of Animal Husbandry:—L. H. Hamilton
Lecturer in Poultry Husbandry:—A. J. G. Maw

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

Adequate facilities are available for the courses listed below and for research.

A. Animal Nutrition.

B. Animal Breeding.

C. Genetics. (See Course B-Department of Genetics).

D. Animal Physiology.

Pre-requisite: The undergraduate course in Physiology offered at Macdonald College or its equivalent. It is also advised that the student have some knowledge of Comparative Anatomy.

- (a) Lectures and demonstrations.
- E. Seminar Staff

M.Sc. Course Requirements: Major work may be taken in A, B, C, with appropriate minors in C, D.

BACTERIOLOGY

Professor of Bacteriology:—E. G. D. Murray

Lecturers:—

{Frederick Smith

J. H. Glynn

During the session 1935-36 this Department is unable to make satisfactory arrangements for graduate students. Instruction is available to suitable candidates, for minor or cognate courses. Application should be made direct to the Chairman of the Department.

DEPARTMENT OF AGRICULTURAL BACTERIOLOGY

(Macdonald College)

Assistant Professor of Bacteriology:—P. H. H. Gray
Assistants:—

R. Redvers Thompson
E. T. Bynoe

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

- B. Dairy Bacteriology.......Dr. Thompson

A minimum of one lecture and one colloquium hour, and six laboratory hours weekly in any one course will form the basis of instruction.

DEPARTMENT OF BIOCHEMISTRY

Professor:—J. B. Collip Associate Professor:—D. L. Thomson

Lecturers:—{Hans Selye L. I. Pugsley R. L. Kutz

Research Associates:—

C. Bachman
C. S. McEuen
Hector Mortimer

The Biochemical Laboratories are especially equipped for research on endocrine problems, but ample facilities are also provided for research in other aspects of Biochemistry.

Candidates who have satisfactorily completed the Honour course in Biochemistry as undergraduates may present themselves for examination for the M.Sc. degree at the end of one year's graduate work in the Department; all others are expected to spend two years in the Faculty of Graduate Studies and Research before going forward for the degree. Candidates for the Ph.D. degree must pass a general examination in Biochemistry, but will be judged principally by the ability they display in research. Candidates for either degree are expected to attend Course A (below) and may, according to their qualifications, be required to take undergraduate courses 2 and 3 in Biochemistry or other cognate subjects. (See page 115.

A. Recent Advances in Biochemistry:

Lectures: Wednesday, Friday at 5.

Text-books:—Peters and van Slyke, "Quantitative Clinical Chemistry" (Williams & Wilkins); Allen, "Sex and Internal Secretions" (Williams & Wilkins); Luck, "Review of Biochemistry" (Stanford Univ.).

DEPARTMENT OF BOTANY

Professor of Botany:—George W. Scarth Lecturer:—R. D. Gibbs Instructor:—Jane D. Spier

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR HIGHER DEGREES

A. Comparative Morphology and Taxonomy.

Professor Scarth, Miss Spier, and Mr. Whyte.

- B. Plant Physiology...... Professor Scarth and Dr. Gibbs.
- C. Cellular Physiology......Professor Scarth.
- E. Biological Colloquium..... Staff and Graduate Students.

REQUIREMENTS FOR THE MASTER'S DEGREE

Each course demands about six hours laboratory work per week, in addition to prescribed reading and attendance at instructional courses.

The candidate must show special knowledge of, and satisfy the laboratory requirements in, at least two of the subjects mentioned above.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Second year students will take one of the above courses which they did not follow during their M.Sc. year. Further instruction is given mainly by way of conference and direction of study.

DEPARTMENT OF CHEMISTRY

Macdonald Professor of Inorganic Chemistry and Director of the Department:—F. M. G. Johnson

MACDONALD PROFESSOR OF PHYSICAL CHEMISTRY:-O. MAASS

E. B. Eddy Professor of Industrial and Cellulose Chemistry:—
Harold Hibbert

ASSOCIATE PROFESSOR:-W. H. HATCHER

C. F. H. ALLEN E. W. R. STEACIE

Assistant Professors:- J. H. Mennie

W. H. BARNES

LECTURER: - J. B. PHILLIPS

Adequate laboratory and library facilities are available for the courses listed below and for research. The Pulp and Paper Research Institute affords ample facilities for research on the structure and properties of carbohydrates, cellulose, lignin, wood, and pulp and paper.

COURSES FOR HIGHER DEGREES

A. Advanced Organic. Three hours per week
B. Structural Organic Chemistry. Two hours per week
D. Advanced Inorganic. One hour per week
E. Advanced Inorganic. One hour per week
F. Advanced Physical. (a) Properties of Matter
Any or all of these sub-divisions, as well as a course in theoretical calculations, may be required.
G. Colloid Chemistry. Two hours per week. First term
H. History of Chemistry. One hour per week
J. Colloquium—Organic. One hour per weekProfessors Hibbert, Hatcher and Allen.
K. Colloquium—Inorganic and Physical. Two hours per week
L. Cellulose, Lignin, and Related Compounds. One hour per week
M. Physical Properties and Chemical Constitution of Organic Compounds. One hour per week. Second termProfessor Hatcher.
N. Chemical Kinetics and Photochemistry. Three lectures per week

O. Electrochemistry.

This course is available for Honours students in Arts and Science and students in Chemical Engineering.

P. Theory of Hydrogen Ion Measurements.

One hour per week. First term......Professor Mennie.

Q. X-rays and Crystal Chemistry.

- (a) Theory, methods and technique.
- (b) Results and applications.

[N.B. (a) and (b) are offered in alternate years, commencing with (a) in 1935-36].

One hour per week. Second term...... Professor Barnes.

R. Chemical Engineering. Special Topics.

Graduate students are expected to attend the weekly meetings of the Chemical and Physical Societies.

REQUIREMENTS FOR THE MASTER'S DEGREE

- I. Students are required to take examinations in (a) Organic, (b) Inorganic, (c) Physical, (d) Colloid Chemistry, and other assigned courses, if any. Students are expected to have covered the subject matter of at least two of the above courses on entrance to the Faculty.
- II. Colloquium—one per week. Students are required to present and discuss in an acceptable manner papers dealing with fundamental and recent work.

III. Special Graduate Lectures.

Students are required to pass examinations on the subject matter of such lectures as relate to their particular work.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

- I. The research work in this Department may be conveniently considered under the following heads:-
 - (a) Organic Chemistry, (b) Inorganic Chemistry, (c) Physical Chemistry, (d) Colloid Chemistry, (e) Cellulose Chemistry.

One of these (under which the research falls) is designated the "principal subject" and each of the others a "secondary subject." Graduate students are required to take examinations in both "principal" and "secondary" subjects.

Principal Subjects:—Several examinations, both written and oral, are held. Students are responsible for the subject matter of all related lecture courses and assigned reading. Special courses given in other Departments may be assigned and examinations required.

Secondary Subjects:—The examinations are less rigorous than in the principal subject. The subject matter is more clearly defined and may include suitable lecture courses or texts, or both.

II. Colloquium: - As for M.Sc. see above.

EXAMINATIONS IN CHEMISTRY

Principal Subject:

- 1. An examination is held in May of the second year. Additional special examinations are held during the third year.
- 2. Candidates who fail in the May examination of the second year are required to repeat the year and the examination in the principal subject.

Secondary Subjects:

- 1. All examinations are available in May and October for candidates in the first two years.
- 2. A second supplemental examination in any one subject may be taken only on recommendation by the Department.
- 3. Examinations in all subjects must be passed by the end of October of the candidate's third year.
- 4. For candidates entering the third year, the October examinations are supplemental examinations only.

General:

- 1. A candidate who may wish to take examinations in any one or more secondary subjects in October of his entrance year is advised to consult the director of the Department as soon as possible.
- 2. In a secondary subject a Master of Science examination at McGill will be accepted as a Preliminary Ph.D. examination provided a standard required by the Department is obtained.

Also, candidates who believe they have the necessary qualifications may apply to the director of their research for exemption from examination in a secondary subject. Such qualifications include a high standing in an examination taken at McGill or other University in the secondary subject. The director of the candidate's research may grant this exemption only with the approval of the Department.

DEPARTMENT OF CHEMISTRY (Macdonald College)

Professor of Chemistry:—J. F. Snell
Assistant Professors:—{J. B. McCarthy R. R. McKibbin

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR THE MASTER'S DEGREE

Prerequisites:—Courses in Inorganic, Organic and Analytical Chemistry; training in Qualitative and Quantitative Analysis; courses in Physics.

- *I. Seminar. One hour per week in all years of the course.

 Professors Snell, McCarthy and McKibbin.
- J. Research..........Professors Snell, McCarthy and McKibbin.

^{*}These courses are also open to advanced undergraduates.

Special arrangements may be made for the Ph.D. degree in association with the McGill Department of Chemistry. Agricultural Chemistry will be regarded as the principal subject, and courses taken in the other Departments mentioned in regulation 3 for the degree of Doctor of Philosophy (page 388) as secondary subjects.

Candidates for M.Sc. must qualify in the equivalent of at least four lecture hours of the above subjects in addition to participating in the Seminar.

DEPARTMENT OF CIVIL ENGINEERING AND APPLIED MECHANICS

PROFESSOR OF CIVIL ENGINEERING:—R. E. JAMIESON

PROFESSOR OF APPLIED MECHANICS AND HYDRAULICS:—ERNEST BROWN

PROFESSOR OF HIGHWAY AND MUNICIPAL ENGINEERING:—

R. DEL. FRENCH

Associate Professor of Civil Engineering:-G. J. Dodd

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR THE MASTER'S DEGREE

A. Statically Indeterminate Stresses.

One term, two hours tutorial, and six hours computation and reports.

Professor Jamieson.

B. Technical Elasticity.

One term, two hours tutorial, and six hours computation and reports.

Professor Jamieson.

C. Secondary Stresses.

One term, two hours tutorial, and six hours computation and reports.

Professor Dodd.

D. Hydraulics.

One hour tutorial, and six hours computation and reports.

Professor Brown.

E. Highway Engineering.

Four hours tutorial, and twelve hours computation and reports.

Professors French and McKergow and staff.

Candidates for the M. Eng. degree will be expected to take at least two courses in addition to thesis work.

DEPARTMENT OF CLASSICS

HIRAM MILLS PROFESSOR OF CLASSICS:—WILLIAM D. WOODHEAD
PROFESSOR OF CLASSICAL PHILOLOGY:—C. H. CARRUTHERS
ASSOCIATE PROFESSOR:—A. M. THOMPSON

COURSES FOR THE DEGREE OF MASTER OF ARTS

Greek A:	Greek Lyric Poetry. Readings from 6 Græca and other texts. Two hours colloquia	
Greek B:	History of the Epigram. Two hours colloquia	
Greek C.	The Republic of Plato. Three hours	.Professor Woodhead.
Greek D:	Aeschylus, Oresteia. Two hours colloquia	. Professor Woodhead.
Latin A:	Vergil, Aeneid. Three hours	Professor Thompson.
Latin B:	Roman Satire. Two hours colloquia	Professor Thompson.

COURSES IN COMPARATIVE PHILOLOGY

PROFESSOR:—C. H. CARRUTHERS

A. Introduction to the Study of Language.

Latin C: Latin Epigraphy and Palæography.

Latin D: Roman Tragedy.

- B. Latin Historical Grammar.
- C. Greek Historical Grammar.

- D. Elementary Sanskrit.
- E. Greek Dialects.
- F. Oscan and Umbrian.

All courses are colloquia of two hours weekly.

DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE

Professor of Political Economy:—Stephen Leacock
Professor of Economics:—Joseph Clarence Hemmeon
Professor of Economics:—John Percival Day
Assistant Professor of Economics:—John Thomas Culliton
Sessional Lecturer in Economics and Political Science:—
Eugene Forsey

COURSES FOR THE DEGREE OF MASTER OF ARTS

A. Economic and Political Problems of the British Empire.

Professors Leacock and Hemmeon.

B. Graduate Seminar. The graduate seminar will be divided into three groups, each of which will meet twice a week. Under ordinary circumstances graduate students may choose the group in which they prefer to pursue their research work but they may be assigned to any one of the three groups.

Professor Leacock's Seminar Group. The field of work will be the displacement of human labour by machinery, with especial reference to its development in Canada. Special topics for selection will be:—The application of Mechanical Power to Agriculture; Mechanical Power in Household Science; Machinery and Amusement.

Professor Hemmeon's Seminar Group. This group will study the trade cycle, its causes and effects.

Professor Day's Seminar Group. The development of monetary science since the war.

C. Economic Journal Group.

One hour, Fri. at 5...... Professor Culliton.

The work in the Department is carried out with special reference to the study of the economic and political problems of Canada.

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

- 1. First year of study:—The M.A. course and successful candidacy for the M.A. degree.
- 2. Second year:—An approved course of study at a University outside of Canada in continuance of the work on the thesis subject already selected.
- 3. Third year:—Resident study at McGill under the general supervision of the Department, with no fixed hours or fixed units, the work to bear on the thesis subject, and to include the preparation and printing in book form of the thesis, such thesis to represent a genuine and useful contribution to the literature of Economics and Political Science as concerning especially the British Empire.
 - 4. The order of study of the Second and Third year may be reversed.
- 5. The holder of a position on the Staff of McGill may count his years in such a position as equal to resident study in the ratio of two teaching years to one of study.

DEPARTMENT OF EDUCATION

Professor of Education:—John Hughes

Conditions of Admission:

Candidates for the degree of M.A. in Education must show (a) that they have satisfied the general conditions for registration as candidates for the M.A. degree as laid down on page 384 of the Announcement, or achieved distinction in the general course; (b) that they have attained a high standard (i.e. at least good second-class standing) in the work of the graduate year of training for the Teachers' High School Diploma, or its equivalent; (c) that they have completed at least Course I in Psychology.

COURSES FOR THE DEGREE OF MASTER OF ARTS

Satisfactory completion of the following courses and studies is required:

- A. Seminar courses in (1) Secondary Education.*
 - (2) Comparative Education.
- B. Studies of
- (1) The History of Education in Canada.
- (2) A Selected Period or Topic in the General History of Education.
- C. An approved course in Philosophy, or Psychology, (pre-requisite—two courses, including Course I).

DEPARTMENT OF ELECTRICAL ENGINEERING

Professor of Electrical Engineering:—Clarence V. Christie
Associate Professor:—G. A. Wallace
Assistant Professor:—E. G. Burr
Lecturer:—F. S. Howes

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE OR MASTER OF ENGINEERING

A. Advanced Mathematics.

Lectures, two hours aweek.......Professor Gillson.

B. Electrical Physics.

Lectures, two hours......Professors King, Keys and Shaw.

C. Electrotechnics.

Lectures, two hours.

Colloquium, two hours.

^{*}In special cases candidates may substitute an approved course in Educational Psychology for this requirement, but they must then take the Philosophy course specified under C.

The following courses are offered (each two hours for one term):-

(a) Design of Electrical Machinery.

Professor Christie.

(b) The Protection of Electrical Power Systems. Professor Burr.

(c) Stability of Electrical Systems under normal and transient conditions; determination of short-circuit currents; design of generators and excitation systems for maximum stability.

Professors Christie and Burr.

- (d) Inductive Co-ordination of Power and Signal Systems. Professors Christie and Wallace.
- (e) Electric Circuit Analysis.

Dr. Howes.

(f) Advanced Wire Transmission Theory.

Professor Wallace.

DEPARTMENT OF ENGLISH

PROFESSOR OF ENGLISH:—CYRUS MACMILLAN

Associate Professors:—{George W. Latham Harold G. Files

ASSISTANT PROFESSOR:—A. S. NOAD

COURSES FOR THE DEGREE OF MASTER OF ARTS

A. Anglo-Saxon.

Prerequisite: - English 12 (in the undergraduate course).

Two hours Professor Latham.

B. The English and Scottish Popular Ballads, with some attention to Canadian Folk-songs and Folk-tales and their relation to those of Europe. Lectures and theses.

Two hours..... Professor Macmillan.

C. Chaucer.

Prerequisite: - English 14, (in the undergraduate course).

Two hours......Professor Latham.

D.	The Drama in England from 1660 to the present time. Two hours(Not given in 1935-36)Professor Macmillan.
*E.	Spenser and Milton. Second term; Tu., Th., Sat., at 12
*F.	Shakspere (Six Plays.) Mon., Wed., Fri., at 10
*G.	English Poetry from 1798 to the present time. Mon., Wed., Fri., at 11 Professor Macmillan, Professor Noad, and an Assistant. (Not given in 1935-36. Given in 1936-37)
H.	English Novelists, from Richardson to the present time. Tu., Th., Sat., at 10
*1.	The English Drama, 1590-1642. Mon., Wed., Fri., at 11Professors Macmillan and Files.
*J.	Anglo-Saxon. Mon., Wed., Fri., at 2
	The Technique of the Drama. Lectures and demonstrations in Moyse Hall, Tu., at 10 a.m. Laboratory hours to be arranged. Professor Macmillan, Miss Sullivan and Assistants.
	Chaucer. Tu., Th., Sat., at 12
	Comparative Literature. The Influence of English Literature upon the Continent of Europe in the 18th and 19th Centuries. Three hours
	Comparative Literature. A study of some literary types from the Renaissance to the present day, with particular reference to the influence of Continental Literatures upon English. Tu., Th., Sat., at 9

^{*}Courses marked with an asterisk are undergraduate Honour courses in the Faculty of Arts and Science, which may also be followed by graduate students who have not already taken them.

(Given in 1935-36. Not given in 1936-37)

ENGLISH 409

O. Memoirs and Memoir Writers. An intensive study of special problems. Two hours
P. Middle English. Language and Literature. Three hours
Q. Mystical and Other Religious Literature in English during the Later Seventeenth and the Eighteenth Centuries. Two hours
R. Literary Criticism. Two hours
S. Shakespere. A study of special topics. Two hours
T. Epistolary Literature. Two hours
U. An advanced course in the Technique of the Drama. Prerequisite:—Course K or its equivalent. Two hours and laboratory periods. Miss Sullivan and other members of the Department.
V. The Literature and Culture of the Renaissance. Two hours

GRADUATE COURSES

Candidates for the degree of M.A., taking English as their only subject, must select four courses, of which two must be from A to D (inclusive), and O to T, while J, or its equivalent, is compulsory.

DEPARTMENT OF ENTOMOLOGY (Macdonald College)

PROFESSOR OF ENTOMOLOGY:—W. H. BRITTAIN
ASSISTANT PROFESSOR:—E. M. DU PORTE
LECTURER:—W. E. WHITEHEAD

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY

A. Taxonomy.

Each student must bring to the class a collection of the group of insects on which he desires to work, and may devote the greater portion of his time to a study of this group.

One lecture, one colloquium and four laboratory hours per week.

Professor Du Porte.

B. Insect Morphology and Physiology.

One lecture, one colloquium and four hours laboratory per week.

Professor Du Porte.

C. Economic Entomology.

(a) Principles of Insect Control.

One lecture and one colloquium per week for one term.

Professor Brittain.

(b) Organization and Methods in Economic Entomology.
One lecture and one colloquium per week for one term.

Professor Brittain.

(c) The Insect Pests of Crops.

Four laboratory hours per week throughout the year.

Professor Brittain.

D. Medical and Veterinary Entomology.

Two lectures, three laboratory hours per week for one term.

Professor Du Porte.

*E. Ecology.

F. Seminar.

One and one-half hours weekly....Professors Brittain and Du Porte.

G. Research in Entomology.

Students are recommended to take courses offered by the Department of Zoology either as part of their major work or as a minor or cognate subject.

^{*}This course is also open to advanced undergraduates.

- Ph.D. Requirements: The Ph.D. in Entomology may be awarded after the following requirements have been completed:
 - 1. The student must spend two years of resident study and research at Macdonald College, and another year, taken preferably between these two years, at an approved institution other than McGill.
 - The student is also required to spend the equivalent of two summer seasons in research work at a government laboratory or other approved research institution.

DEPARTMENT OF EXPERIMENTAL MEDICINE AND SURGERY

Professor of Medicine and Chairman of Department:—
J. C. Meakins

PROFESSOR OF SURGERY:-E. W. ARCHIBALD

Lecturers in Medical Research:—{R. V. Christie J. S. L. Browne

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

- A. Colloquium. Pathological Physiology and Biochemistry.
 One hour a week. Professor Meakins, Dr. Christie and Dr. Browne.
- B. Seminar. Experimental Medicine.
 One hour a week. Professor Meakins, Dr. Christie and Dr. Browne.
- D. Lectures. A weekly course on selected topics..... Dr. Browne.

All candidates for this degree must take at least three of the above courses and devote all the remainder of their time to experimental research, the accomplishment of which, as embodied in their thesis, will be the main consideration in recommending them for this degree.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

The above courses are continued throughout all years of graduate study and the experimental research must be of a fundamental and farreaching character.

ADVANCED STUDY

In addition to courses leading to the M.Sc. and Ph.D. degrees, the Faculty of Medicine offers opportunities for advanced study in the clinical field to properly qualified graduates who are willing to spend at least six months or a year on intensive work.

For information on such advanced study, graduates should apply to the Secretary of the Faculty of Medicine, McGill University.

DEPARTMENT OF GENETICS

PROFESSOR OF GENETICS:—C. LEONARD HUSKINS

RESEARCH ASSISTANTS:—

STANLEY G. SMITH

H. GERHARD SANDER

COURSES FOR HIGHER DEGREES

With the Assistance of the Department of Botany and the Faculty of Agriculture, adequate laboratory, greenhouse, field, and library facilities are available for research in Plant or Animal Genetics and Cytology.

- A. Cytology (Given in conjunction with the Department of Botany.)
- B. Advanced Genetics and Cytology (Given in co-operation with the Faculty of Agriculture, Macdonald College.)
- C. Seminar. A course entailing the presentation by each student of at least six reports on current researches in Cytology and Genetics.
- D. Biology Colloquium.
- E. Botany A, B, C, or D, Zoology C, or D, or other subjects cognate to Genetics or Cytology.

Three or four of the above courses are required for the Master's degree.

A sound knowledge of General Biology and a sufficient knowledge of Mathematics and Statistical Methods are prerequisite.

The research problem may be in Genetics or Cytology, or Cytogenetics.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

For the degree of Ph.D. an advanced research standard is maintained. Course C must be taken in each year and papers must be presented in the general Biological Colloquium. Additional courses will be taken in cognate subjects. Only candidates who have shown indications of distinct research ability during their Master's training will be permitted to register for the Ph.D. degree.

DEPARTMENT OF GEOLOGICAL SCIENCES

Professor of Geology and Chairman of the Department:— John J. O'Neill.

PROFESSOR OF MINERALOGY:—RICHARD P. D. GRAHAM PROFESSOR OF PALÆONTOLOGY:—T. H. CLARK

Assistant Professors of Geology:—{J. E. Gill F. F. Osborne Leroy Fellow in Geology:—J. E. Riddell

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR THE MASTER'S DEGREE

Students must take Courses A to G, inclusive.

- A Elementary Structural and Dynamical Geology.

 Lectures and colloquia; Tu. and Th. at 10......Professor Gill.
- B. Geological Colloquium.—This course must be taken by all graduate students in Geology in the first and second years.

- E. (a) Petrology and Petrography.—Lectures Mon., Wed., and Fri. at 9. Laboratory Tues. and Thur., 2 to 5.

Text-books: Rosenbusch, Osann, Elemente der Gesteinslehre; Bowen, Evolution of Igneous Rocks, Princeton; Tyrrell, Principles of Petrology, Dutton; Grout, Petrology and Petrography, McGraw Hill; Harker, Metamorphism, Methuen.

- (b) Mineralography.—Laboratory Wed. 2 to 5. Professor Osborne.
- F. Stratigraphy.

 Two hours, first term; Mon., Fri. at 11. One hour laboratory, and two full days field work during October..... Professor Clark.
- H. Physiography and Natural Resources of Canada.—Lecture Tu. at 12, and three hours laboratory per week.....Professor Gill.

Students who have satisfactorily completed undergraduate courses in general Geology, Mineralogy, Determinative Mineralogy, Petro-

graphy, Canadian Geology, Stratigraphy, Practical Geology and Ore Deposits, or their equivalents, may expect to complete their M.Sc. course in one year; those specializing in Economic Geology must have certain Engineering credits in addition to the above.

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

(Second and Third Years)

I. Geology and Problems of the Pre-Cambrian.

J. Geological Map Interpretation.

One hour seminar with assigned problems.

Fri. at 10......Professor Gill.

K. Geophysics and Geo-Chemistry.

Includes eight to ten lectures on Methods of Geophysical prospecting given by the Department of Physics (if a sufficient number of students apply).

"Applied Geophysics in the Search for Minerals," by Eve and

Keys; "Data of Geo-Chemistry," by Clarke.

- M. Advanced Mineralogy.

Three hours laboratory per week..... Professor Graham.

- N. General Reading.—A supplementary course of assigned readings for which the student will be responsible in his preliminary orals.
- O. Physiography.

*P. Advanced Palæontology.

†Q. Advanced Economic Geology

Seminar, Tu. and Fri. at 2......Professor O'Neill.

†R. Advanced Structural and Dynamical Geology.—As in "Das Antlitz der Erde," vols. 1, 2, 3, and 4, by E. Suess, and numerous assigned papers.

At least two hours seminar per week. Tu. and Fri. at 2.

Ph.D. students must complete Chemistry 51A, 59, 60 and 62, Faculty of Engineering, if not previously taken.

^{*}For students wishing special work in Palæontology.

[†]Courses Q and R may be given in alternate years.

DEPARTMENT OF GERMANIC LANGUAGES AND LITERATURE

Professor of Germanic Languages and Literature:—H. Walter Associate Professor:—W. L. Graff

COURSES FOR THE DEGREE OF MASTER OF ARTS

The candidate's course will be selected from the following:-

A.	One hour	Professor Graff.
В.	Geschichte des deutschen Romans.	Professor Graff.
C.	. Hebbels Dramen. One hour	Professor Walter
D.	. Grillparzer	Professor Walter
E.	. Heine und seine Zeit	Professor Walter
F.	. Gothic and Introduction to Germanic	PhilologyProfessor Graff

The thesis must be written in German.

DEPARTMENT OF HISTORY

PROFESSOR OF HISTORY:—C. E. FRYER
ASSOCIATE PROFESSOR:—E. R. ADAIR

COURSES FOR THE DEGREE OF MASTER OF ARTS AND DOCTOR OF PHILOSOPHY

- B. The Early History of the English Parliament. Seminar, one hour.
- C. Movements for Religious Reform in the Later Middle Ages. Seminar, one hour.

D. The Reign of Charles I. Seminar, one hour	or Adair.
E. William Pitt and the Conquest of Canada. Seminar, one hour	or Adair.
F. Industrial Democracy in England. Seminar, one hour	sor Fryer.
G. Problems in World Politics Since 1878. Seminar, one hour	sor Fryer.
H. A Selected Period in the History of Canada, Down Seminar, one hour	to 1867.
I. A Selected Topic in Canadian History, 1867-1896. Seminar, one hour	
J. History of a Quebec Parish. Seminar, one hour	or Adair.

Graduate work in the Department of History is directed through seminars and conferences. Students are expected to acquire a sound knowledge of methods of historical research and the ability to apply them in practice. Candidates both for the M.A. and for the Ph.D. are required to take Course A, and take the prescribed examination. The Redpath Library is well equipped with printed sources for the periods and subjects mentioned above, and students pursuing research in Canadian History may be required, if occasion arises, to avail themselves of the manuscript resources of the Dominion Archives at Ottawa and the Provincial Archives at Quebec, and of parochial and other records in Montreal and its vicinity.

Candidates for the degree of Master of Arts will take the appropriate seminar or seminars and will also prepare a thesis upon some subject to be selected from within the scope of one of the seminars they are taking; the thesis is regarded as the major test in determining the candidate's fitness for this degree.

The Ph.D. degree will be awarded on a course of study and research extending over three or more years. The first year of study for honours graduates of McGill University in History will consist of the M.A. course as outlined above; for graduates of other Universities, of this course or its equivalent. The second and third years shall consist of either:—

- (a) Resident study and research at McGill University under the general supervision of the Department, and directed in the appropriate seminar or seminars, the work to bear on the thesis subject, and to include the preparation of the thesis, which must represent a genuine contribution to historical scholarship.
- or (b) Resident study and research elsewhere for one of these years, or in the case of McGill graduates, for either one or both of these years, at an approved University or repository of archives in continuance of the work upon the thesis subject already selected. In all such cases the approval of the Faculty is required.

The preliminary Ph.D. examination requirements (discussed in the Announcement, in section 5 of the regulations for the degree of Doctor of Philosophy), will be replaced by a report from the Department of History on the general work and ability of each candidate.

Candidates are advised to satisfy the language requirements as early as possible in their course; they should consult the Department as to the selection of the two foreign languages in which they propose to be examined, as these must be chosen for their bearing upon the candidate's special field and special subject of research.

After the thesis has been approved, the candidate will take the usual oral examination upon his special field of research.

DEPARTMENT OF HORTICULTURE

(Macdonald College)

Professor of Horticulture: T. G. Bunting Assistant Professor: H. R. Murray

Adequate laboratory and library facilities are available for the courses listed below and for research:

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

- A. Pomology.—The technique of research. Lectures and colloquium, three hours per week. Laboratory, three hours per week.
- B. Vegetable Crops.

 Lectures and colloquium, three hours per week.

 Laboratory, three hours per week.

- C. Experimentation. (See Course B.—Department of Agronomy).
- D. Plant Physiology. (See Course B.—Department of Botany).
- E. Genetics and Cytology. (See Course B.—Department of Genetics).

Text Books

Pomology—Fundamentals of Fruit Production; Gardner, Bradford & Hooker, 1st Ed. 1922 (McGraw-Hill Book Co.).

North American Orchards; Chandler, 1928 (Lea & Febiger). Vegetable Crops—Truck Crop Plants; Jones & Rosa, 1928 (McGraw-

Hill Book Co.)

Seed Production and Marketing; Cox & Starr, 1928. (John Wiley & Sons).

REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE

- 1. A candidate must select either Course A or Course B, and Course C, together with at least one of the following: Course D, Course E, or any other course in a cognate subject approved by the Faculty.
- 2. The research problem must be approved by the Departments of Horticulture and Botany.
- 3. The candidate must spend one summer in work in the Department before or during the course, or have its equivalent at some other approved institution.

DEPARTMENT OF MATHEMATICS

Professors:— Charles T. Sullivan
Neil Bruce MacLean
Albert H. S. Gillson
W. L. G. Williams

Associate Professor:—Herbert Tate
Assistant Professor:—Gordon Pall

COURSES FOR THE MASTER'S DEGREE

- *B. Introduction to the Theory of Functions of a Complex Variable.

C. Theory of Numbers.

^{*}Open also to undergraduates of the Fourth Year in the Honour course.

D. Methods of Mathematical Physics.	
Two hours	Professor Gillson.
E. Differential Geometry. Two hours	Professor Sullivan.
F. Differential Equations and Advanced Two hours	
G. Theory of Generalized Relativity. Two hours	Professor Gillson.
H. Theory of Algebraic Plane Curves. Two hours	Professor Sullivan.
I. Calculus of Variations	Professor MacLean.
J. Projective Geometry	Professor Tate.
K. Matrices, Substitutions, and Groups. Two hours	Professor Williams.

Courses A, B, D, F are given annually. An additional one of the courses listed above will be given, if a sufficient number of qualified students present themselves.

Students taking a minor in Mathematics for the M.Eng. degree must have as preliminary training the Mathematics required of undergraduates in Engineering, with an additional more advanced course in Mathematics.

Students taking a minor in Mathematics for the degree of M.A or M.Sc. must present courses in Mathematics equivalent to those required in the first three years of the Honour course in Mathematics and Physics, together with one additional course approved by the Department.

For a minor in Mathematics for the Ph.D. degree the student must have the equivalent of the Mathematics required in the honour course in Mathematics and Physics, and an additional graduate course in Mathematics.

The final examination in Mathematics as a minor for the Ph.D. degree includes two papers; one on the graduate course, and a general paper on the facts and principles of the more elementary phases of the Honour courses in Mathematics and Physics.

DEPARTMENT OF MECHANICAL ENGINEERING

Professors of Mechanical Engineering:—{Charles M. McKergow Arthur R. Roberts

Assistant Professor:—James A. Coote

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR THE MASTER'S DEGREE

- A. Engineering Thermodynamics. Prerequisites, *Courses 228, 229 and 251.
- C. Industrial Engineering. Prerequisites. *Courses 253, 254, 258 or their equivalent.
 Two hours lectures and two hours colloquia...Professor Coote.
- *These numbers are those of courses given in the Faculty of Engineering.

DEPARTMENT OF METALLURGICAL ENGINEERING

Professor of Metallurgy:—Alfred Stansfield Associate Professor:—Gordon St. George Sproule Lecturer:—Harold J. Roast

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR THE MASTER'S DEGREE

A. General Advanced Metallurgy. Directed reading supplemented by two hours per week of colloquium and three hours per week of laboratory work.....Professors Stansfield, Sproule and Mr. Roast.

This may include a special study of one or more selected metals or of some special branch of Metallurgy such as Electro-metallurgy, Hydro-metallurgy or Metallography.

The following undergraduate subjects are offered to students who did not take them in their undergraduate course:—

- C. Electro-Metallurgy and Laboratory. Fourth Year Engineering, No. 275.

Two hours lectures and one laboratory period in second term.

Professor Stansfield,

- D. Metallurgical Analysis. Fourth Year Engineering, No. 279.
 One hour lecture and one laboratory period in second term.
 Mr. Roast.
- E. Metallography and Laboratory. Fourth Year Engineering, Nos. 280 and 281.
 One hour lecture and one laboratory period in first term.

Professor Sproule.

DEPARTMENT OF MINING ENGINEERING

Professor of Mining Engineering:—Wilbert G. McBride
Professor of Ore Dressing:—John W. Bell
Assistant Professor:—Osburn N. Brown

Adequate laboratory and library facilities are available for the course. listed below and for research.

COURSES FOR THE MASTER'S DEGREE

- *A. Mining Engineering. Course 297 in the Faculty of Engineering (see Announcement of that Faculty)...........Professor McBride.
- C. The Settling of Finely Divided Minerals in Water.

 Two lectures and one laboratory period for one term.

Professor Bell.

^{*}Undergraduate course open to graduate students who have no already taken it as undergraduates.

- E. Filtration in Ore Dressing and Cyanidation.

 One lecture and one laboratory period per week for one term.

 Professor Bell.

- K. Fine Grinding of Ores. Two lectures per week for one term. Professor McBride.
- L. Grinding Laboratory. Students who wish to supplement Course K are given one or two laboratory periods per week for one term. Professors McBride and Bell.
- M. Mine Ventilation. Two lectures per week. Professor Brown.

Permission is given for two or more graduate students to work together on the physical part of an investigation, when the nature of the problem and the facilities in the laboratory make it desirable to do so.

No collusion in working up of results or in writing of the thesis is allowed.

DEPARTMENT OF NEUROLOGY AND NEUROSURGERY

PROFESSOR:—WILDER PENFIELD

Associate Professor:—Colin Russel

ASSOCIATE PROFESSOR AND CHAIRMAN:—WILLIAM CONE

 $\begin{array}{l} \text{Lecturers:--} \\ \text{Arthur Elvidge} \end{array}$

RESEARCH FELLOW:—GEORGE STAVRAKY

COURSES FOR THE DEGREES OF MASTER OF SCIENCE & DOCTOR OF PHILOSOPHY

- A. Colloqium, 1 hour Neuropathology Professors Cone and Penfield.

For the degree of Master of Science a candidate must satisfactorily complete three of the courses, listed as A, B, C and D above. He may substitute for one of these a course of equal rank in another Department of the Faculty of Graduate Studies and Research with the approval of the Chairman of the Department. The remainder of his time is to be devoted to experimental research, the accomplishment of which, as embodied in his thesis, will be the main consideration in recommending him for this degree.

For the degree of Doctor of Philosophy the above course requirements are made in each of the first two years of work. Other requirements are outlined under the general statement and regulations of the Faculty of Graduate Studies and Research.

In addition to the above formal courses the Department provides opportunity for advanced clinical study and laboratory research to properly qualified graduate students. The work of this Department is carried out chiefly in the Montreal Neurological Institute.

DEPARTMENT OF PARASITOLOGY (Macdonald College)

Institute of Parasitology for the courses listed below and for research.

Adequate laboratory and library facilities are available at the

Professor of Parasitology:—Thomas W. M. Cameron

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

A sound knowledge of general Zoology and of elementary Parasitology are prerequisites.

A, B and C comprise the main courses and further cognate courses from group E may be chosen, depending on the research problem selected and the candidate's previous training.

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Candidates should have a degree in which Zoology is an important subject; when the special subject for research is an economic one, qualifications in Human or Veterinary Medicine or Agriculture are desirable; if the special branch of research is in Non-Economic Animals, a degree with honors in Zoology is desirable. A cognate subject from group E may be selected, but the examination in this should be completed by the end of the second year of study.

A. A systematic study of the animal parasites of man, domestic and economic animals.

Three hours......Professor Cameron.

B. Practical Parasitology:

- C. Field Work: Parasitological surveys. Collections in the field. Methods of control.
- D. Medical and Veterinary Entomology—(See Department of Entomology, course D).

Two lectures, three laboratory hours per week, for one term.

Professor Du Porte.

E. Cognate subjects relative to the subject of research, selected from Departments of Animal Husbandry, Agronomy, Bacteriology, Biochemistry, Pathology, Pharmacology, Physiology, Entomology, etc., as may be arranged.

PATHOLOGY

This department will not offer any courses, or receive any graduate students in 1935-36.

DEPARTMENT OF PHARMACOLOGY

Professor of Pharmacology:—Raymond L. Stehle
Assistant Professor:—K. I. Melville

Adequate laboratory and library facilities are available for the courses listed below and for research.

Candidates for higher degrees must present evidence of suitable preparation in Chemistry and Physiology and must have completed the course in Pharmacology as given to medical students.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

- A. Advanced Pharmacology.
- B. Colloquium.

One hour weekly.

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Special arrangements can be made for anyone desiring to proceed to a doctorate.

DEPARTMENT OF PHILOSOPHY

PROFESSOR OF MORAL PHILOSOPHY AND CHAIRMAN OF THE DEPARTMENT:—C. W. HENDEL

Associate Professor of Philosophy:—R. D. Maclennan Lecturer:—J. S. Fulton

COURSES FOR THE DEGREE OF MASTER OF ARTS

- *A. Social and Political Ethics.
- *B. The Philosophy of Kant and Fundamental Problems.
- *C. Seminar on Contemporary Philosophy; Contemporary Logic.
- *D. Ethics. (Not given in 1935-36).
- *E. Seminar courses will be offered on the special fields of Philosophy in which candidates are studying for their theses.

DEPARTMENT OF PHYSICS

HEAD OF DEPARTMENT:—A. NORMAN SHAW

LOUIS V. KING

PROFESSORS:—DAVID A KEYS

Professors:— David A. Keys
J. Stuart Foster

Associate Professor:—Herschell E. Reilley Assistant Professor:—W. H. Watson Lecturer in Astrophysics:—A. V. Douglas

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR THE DEGREES OF MASTER AND DOCTOR OF PHILOSOPHY

*A. Electrical Measurements. (Arts and Science, 6A.)

Tu. at 2, Wed. at 9; Laboratory, Tu., 3-5, Wed. 2-5. Professor Watson.

Reference Books: Laws' Electrical Measurements (McGraw-Hill);

Starling's Electricity and Magnetism (Longmans); Pidduck's

Treatise on Electricity (C.U.P.); Hague's Alternating Current Bridge

Methods (Pitman, London).

^{*}These courses are also open to undergraduates.

PHYSICS 427

*B. Light. (Arts and Science, 6B.) (Replaced by F in alternate sessions.†)

Mon., at 9 (laboratory, Th., 2-5.).. Professor Keys and Dr. Douglas.

Text-books:—Edser's Light (Macmillan); Robertson's Physical Optics (Van Nostrand); Wood's Physical Optics (Macmillan); Drude's Physical Optics, (Longmans).

- *F. Theory of Heat. (Arts and Science, 8B.) (Replaced by B in alternate sessions.†)

 Mon., at 9; lab. Th. 2-5‡............... Professor Shaw and Dr. Douglas.

 Text-book:—Roberts' Heat and Thermodynamics (Blackie).

§Course 10 is offered in alternate sessions, '35-'36, '37-38, etc.

^{*}These courses are open to undergraduates.

[†]Courses B and F will be given in alternate sessions, as follows:—B in '36-'37, etc., and F in '35-'36, etc.

[†]The Department of Metallurgy kindly permits students to do additional practical tests in the Metallurgical Laboratory.

I.	Advanced Statics, Dynamics, Hydrodynamics and Sound. Mon., Fri., at 4
	Text-books:—Lamb's Higher Mechanics (C.U.P.); Basset's Hydrodynamics and Sound (Deighton Bell); References to Lamb's Dynami-
	cal Theory of Sound (Arnold); Lamb's Hydrodynamics (C.U.P.); Rayleigh's Theory of Sound (Macmillan); Stewart & Lindsay's Acoustics (Van Nostrand).

†J. Kinetic Theory of Matter.

K. Quantum Theory.

L. Relativity.

M. Advanced Electricity and Magnetism.

Prerequisite—Course C.

N. Laboratory Practice and Physical Manipulation.

Mr. H. T. Pye and Mr. S. Amesse.

O. Thermodynamics.

(Alternate sessions, 1936-37, etc.).

[†]Courses J and P are sometimes combined and given as one course, two hours per week.

PHYSICS 429

†P.	Electron Theory. Wed. at 11, Thurs. at 10		Profes	sor King
	Text-books:—Richardson's Electron Theory of Electrons (Stechert).			
0.	Heaviside's Operational Calculus.	-M. J. MF		

*R.	Astrophysics.
	Thurs. 2-5
	Text-books:-Russell's Astronomy, vol. II (Ginn); Dingle's Astro-
	physics (Collins); Stratton's Astronomical Physics (Methuen).
	(Maths. D and F, and Physics 5B prerequisite.)

S.	. Mathematical Physics, Wave Mechanics, etc.			
	Two hours		Prof	essor Gillson.

ţт.	Logic of Physics.	
	Tu. and Fri. at 12 (first term only)	son.

ţU.	Statistical Mechan	nics.	the Table	Duefee	Watson
	Tu. and Fri. at 12 (1) References:—Rice's	Statistical	Mechanics;	Fowler's	Statistical
	Mechanics				

V.	Contemporary Physics Seminar.	
	One and one-half hoursProfessor	Foster.

A suitable selection of the above courses may be made when Physics is taken as a minor or cognate subject. A general paper on elementary physics is also given when Physics is a minor subject.

Course for Master and first year Ph.D.—At least four courses must be selected, including K and M, also Mathematics D.

Second Year.—Research and selected courses from the above. General examination.

Third Year.—Research, thesis and oral.

^{*}Students who have received instruction in Astronomy may apply to proceed to the Dominion Observatory at Ottawa for work in summer.

[†]Courses J and P are sometimes combined and given as one course, two hours per week.

[‡]Courses T and U are given in alternate sessions. U will be given in 1935-36.

Attendance at meetings of the Physical Society, Journal Club, and Colloquium, together with the presentation of papers, form an important element in the training of M.Sc. and Ph.D. students.

DEPARTMENT OF PHYSIOLOGY

Professor of Physiology:—John Tait Research Professor:—B. P. Babkin Assistant Professor:—N. Giblin Lecturer:—S. Dworkin

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

- A. Lectures on Autonomic Nervous System . . . Professor Babkin.
- B. Lectures on Selected Advanced Topics.... Professor Giblin.
- C. Lectures on Structure and Function Professor Tait.
- D. Advanced Laboratory.
- E. Physiological Colloquium.
- F. Lectures on Conditioned Reflexes......Professor Babkin.
- G. Lectures on Secretory Activity of the Digestive Glands.

 Professor Babkin.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Courses for a second year, toward the degree of Doctor of Philosophy, may be selected from those set forth above which have not already been taken in the first year of graduate study.

DEPARTMENT OF PLANT PATHOLOGY

(Macdonald College)

Assistant Professors of Plant Pathology:—{J. G. Coulson R. F. Suit

LECTURER IN PLANT PATHOLOGY:—H. J. BRODIE

Adequate laboratory and library facilities are available for the courses listed below and for research.

Candidates must have completed satisfactory undergraduate courses in Plant Morphology, Physiology, Taxonomy, Histology, and Cytology. Specialists in Plant Pathology should possess a general knowledge of the fundamental practices in Agronomy and Horticulture.

Courses for the Degree of Master of Science and Doctor of Philosophy.

- A. History of Plant Pathology. One lecture per week for one term. Extra reading required. Professor Suit. *Text-book:*—History of Phytopathology—Whetzel (Saunder's Co.).
- B. Advanced Mycology. Two lectures and two laboratory periods per week for two terms. A general course in Systematic Mycology is a prerequisite.

 Dr. H. J. Brodie.

Text-books:—Comparative Morphology of the Fungi—Gaumann and Dodge (McGraw-Hill). Plant Disease Fungi—Stevens (Macmillan).

C. Advanced Plant Pathology.

Two lectures and two laboratory periods per week for two terms.

Professor Coulson and Professor Suit.

Text-book:—Manual of Plant Diseases—Heald (McGraw-Hill).

- E. Plant Physiology (See Course B-Department of Botany).
- F. Genetics and Cytology (See Course B-Department of Genetics).

Candidates for the degree of M.Sc. in Plant Pathology are required to take at least courses G, and two from B, C, and D.

The Ph.D. degree in Plant Pathology is offered in association with the Department of Botany. Plant Pathology is to be regarded as the major subject and the courses in the Department of Botany, listed above, as cognate lines of study. The research and thesis must be in the field of Plant Pathology.

DEPARTMENT OF PSYCHOLOGY

PROFESSOR:—WILLIAM D. TAIT

ASSOCIATE PROFESSOR:—CHESTER E. KELLOGG

COURSES FOR MASTER'S AND PH.D. DEGREES

- A. Seminar in History of Psychology...... Professor Kellogg.
- B. The Psychology of William James..... Professor Tait.
- C. Contemporary Psychology. A group course by the members of the Department.
- D. Seminar in Feelings and Emotions..... Professor Tait.
- F. Advanced Statistical Methods......Professor Kellogg.
- G. Theory and Technique of Mental Tests.

Professors Tait and Kellogg and Mr. Webster.

- H. Experimental Education......Professor Kellogg.
- I. Advanced Psychotechnics Professors Tait and Kellogg.
- J. Research. Under the direction of members of the Department.

For other courses open to graduate students see page 151.

SPECIAL REQUIREMENTS FOR PH.D.

- 1. Candidates are required to possess an adequate knowledge of the main principles of Physics, Chemistry and Physiology, in so far as these subjects are cognate to Psychology.
- 2. All students are required to have a knowledge of Advanced Statistical methods such as Correlation, Partial Correlation, Regression Equations and methods of testing the reliability of psychological measurements.
- 3. A certain amount of shopwork is required, enough to show that the candidate is capable of designing and constructing simple apparatus.
- 4. The preliminary examination for the Ph.D. includes the History of Philosophy, Logic, Principles of Psychology, Experimental and Physiological Psychology, Statistical Methods and Contemporary Psychology.

DEPARTMENT OF ROMANCE LANGUAGES

Professor of French:—R. du Roure Associate Professor:—Georges E. Lemaitre

Assistant Professors:—

Lucie Touren Furness
Louis d'Hauteserve
Mlle C. Henry

COURSES FOR THE DEGREE OF MASTER OF ARTS

- D. La Société Française dans ses rapports avec la littérature.

 Professor Lemaitre.
- E. Exercices pratiques (Colloquia).
 One hour.

Candidates for the Master's degree in French only will take Course A (if not already taken), two of B, C, D and also E and one of F, G, H, I.

Those taking French as a major will omit A and either B, C or D.

Those taking French as a minor will take \bar{E} and one of the one-hour courses.

The M.A. thesis must be written in French.

Students from other Provinces and States where the opportunities of speaking French are small cannot normally obtain an M.A. in less than two years.

^{*}These are also Honour courses in the Faculty of Arts and Science.

434

FRENCH SUMMER SCHOOL

Information as to this School may be obtained from the Director, Professor R. du Roure.

Students who attend the French Summer School do not thereby become members of McGill University, but the records of their work are kept by the University Registrar.

Those students who have successfully completed three years at the French Summer School, or the equivalent, may apply to the Dean of the Faculty of Graduate Studies and Research with a view to enrolment in that Faculty, to proceed to the M.A. degree. Registration should be made in person during the first half period of the candidate's fourth session in the French Summer School, (a) at the Office of the Dean of the Faculty of Graduate Studies and Research, and (b) at the Office of the University Registrar. A registration fee of \$10.00 will be charged. The student will also be required to pay the usual graduation fee of \$20 on presenting a thesis.

Prerequisites: A B.A. degree with at least second class honours from McGill University, or a B.A. degree with equivalent standing from some other recognized University.

DEPARTMENT OF SOCIOLOGY

Professor of Sociology:—Carl Addington Dawson
Assistant Professor:—Everett Cherrington Hughes

The Department especially encourages research in Canadian problems, such as: the peculiarities of Canadian culture and social organization; the ecological organization of Canada, and the development of pioneer regions; the Canadian city; immigration and race relations; population and related problems; the Press and other social institutions; crime, delinquency, and other forms of social disorganizations.

COURSES FOR THE DEGREE OF MASTER OF ARTS

*A.	The C	ommun	nity.	Third	and	Fourth	Years.		
	Tues.,	Thurs.,	Sat.,	at 9				Professor	Dawson.

*B.	Social	Origins.	
TRUE!	(Given	in 1936-37)Professo	or Hughes.

^{*}These are also honour courses in the Faculty of Arts and Science.

D. Social Institutions.

Hours to arranged......Professor Hughes.

E. Social Attitudes and Personality.

F. Graduate Seminar.

Hours to be arranged......Professors Dawson and Hughes.

Written examination in each course of study and a general oral examination are required of each candidate.

Note.—The starred courses are also undergraduate Honour courses (see page 158). Additional work will be required of graduate students who take such courses.

DEPARTMENT OF THEOLOGICAL STUDIES

John Duncan Professor of Dogmatic Theology and Lecturer in New Testament Literature, Co-operating Theological Colleges:—George Abbott-Smith

ARCHBISHOP BOND PROFESSOR OF APOLOGETICS AND ECCLESIASTICAL HISTORY, CO-OPERATING THEOLOGICAL COLLEGES:—O. W. HOWARD

Professor of Church History, Co-operating Theological Colleges:-William A. Gifford

Professor of Old Testament Literature and Exegesis, Co-operating Theological Colleges:—R. B. Y. Scott

PROFESSOR OF NEW TESTAMENT LANGUAGE AND LITERATURE, CO-OPERATING THEOLOGICAL COLLEGES:—JAMES SMYTH

PROFESSOR OF NEW TESTAMENT LANGUAGE AND LITERATURE, CO-OPERATING THEOLOGICAL COLLEGES:—R. K. NAYLOR

A selection from the following courses may be taken as fulfilling the requirements of a minor or cognate subject for the degree of Master of Arts.

OLD TESTAMENT

A. Introduction—Canon, Text and Introduction to the Historical Books.

Three hours a week throughout the year Professor Scott.

NEW TESTAMENT

- B. Introduction.
 - (1) History of New Testament Times.
 - (2) Canon and Text.
 - (3) The Language of the New Testament.

Three hours a week throughout the year.

Professor Abbott-Smith and Professor Naylor.

C. Introduction to the Acts and Pauline Epistles; and Exegesis (Greek) of the Epistle to the Galatians and the Pastoral Epistles.

Three hours a week throughout the year.

Professor Smyth and Professor Abbott-Smith.

D. Introduction to the Catholic Epistles; and Exegesis (Greek) of the Epistles of First Peter and James.

Three hours a week throughout the year.

Professor Smyth and Professor Naylor.

HISTORY

- E. The Rise and Progress of Protestant Christianity in Europe until the close of the 16th Century.

 Two lectures a week with weekly colloquium...Prof. Gifford.
- F. History of the Christian Church in the First Six Centuries.

 Two lectures a week with weekly colloquium...Prof. Howard.

DEPARTMENT OF ZOOLOGY

STRATHCONA PROFESSOR OF ZOOLOGY:—H. B. FANTHAM
ASSOCIATE PROFESSOR:—N. J. BERRILL
ASSISTANT PROFESSOR:—V. C. WYNNE-EDWARDS
LECTURERS:—W. TEMPLEMAN, B. W. TAYLOR
ASSISTANT:—KATHLEEN TERROUX
RESEARCH ASSOCIATE:—ANNIE PORTER

Adequate laboratory and library facilities are available for the courses listed below and for research.

A. Animal Ecology.

First term:—Two hours lecture and three hours laboratory.

Professors Berrill and Wynne-Edwards and Mr. Taylor.

ZOOLOGY 437

B. Ornithology.

Second term:—Two hours lecture and three hours laboratory.

Professor Wynne-Edwards.

C. Social Biology.

First term:—Two hours lecture and three hours laboratory.

Professor Fantham.

D. Animal Parasites and their Life-Histories.

Second term:—Two hours lecture and three hours laboratory.

Professor Fantham.

E. Comparative Embryology.

First term:—Two hours lecture and three hours laboratory.

Professor Berrill.

F. Experimental Zoology.

Second Term:—Two hours lecture and three hours laboratory.

Dr. Terroux.

- G. Biological Colloquium The Staff and Graduate Students.
- H. Recent Researches in Zoology Professor Fantham.

In addition to thesis work and extensive reading, candidates for the Master's degree must take course G and at least one other course chosen from those listed.

Similarly, candidates for the Doctor's degree must take courses G and H and one other course chosen from the preceding list.

The thesis is the major test for higher degrees.

Details must be arranged, in advance, with the Chairman of the Department in every case.

LABORATORIES AND LIBRARIES

Adequate laboratories and laboratory equipment are available for undergraduate instruction and for the use of students in the Faculty of Graduate Studies and Research.

All students have free access to the Redpath Library, containing over 300,000 volumes, to the Faculty Library in the Engineering Building, containing about 2,000 titles of particular interest to students of engineering, and to the special libraries of the Department of Chemistry and of the Department of Physics.

Mcgill, 1935-36

FACULTY OF GRADUATE STUDIES AND RESEARCH

438

DEPARTMENT OF SOCIAL RESEARCH

DIRECTOR:-L. C. MARSH

The Department of Social Research is not a separate teaching Department but is organized in co-operation with the Departments of Economics, Sociology, Education, Psychology, etc., to supervise and co-ordinate the research on unemployment and related problems which has been undertaken since the grant for this research was made by the Rockefeller Foundation in 1930.

Details concerning fellowships, etc., may be obtained from the Director.

Graduate students working on projects approved by the Social Research Council are expected (subject to satisfactory progress in the first year) to devote at least two years to their work. Subject to this condition and provided that requirements laid down by the Department in which the thesis is presented are met, work on such projects is accepted in satisfaction of research requirements for M.A., and other higher degrees.

The following courses are available, intended primarily for graduate students. Either course 1 or 2, however, will be accepted by the Economics, Sociology, Psychology, or Education Departments as the equivalent of a Fourth Year (B.A.) half course.

1.	Industrial Fluctuations.
	First term: Mon Wed Fri at 12 00 noon Mr. Marsh.

- 2. Post-War Unemployment Problems.

 Second term; Mon., Wed., Fri., at 12.00 noon......Mr. Marsh.

THE LIBRARY SCHOOL

REQUIREMENTS FOR ADMISSION

- 1. Applicants for admission to the course leading to the degree of Bachelor of Library Science must have a Bachelor's Degree from a recognized college or university and must present an official transcript of their college record.
- 2. Experience has shown that applicants over thirty-five years of age should not be encouraged to enter the School.
- 3. Applicants for admission must fill in the School Application Form and attach thereto a recent photograph.
- 4. Ability to use a typewriter is a valuable part of the equipment of a library assistant, and students are advised to provide themselves with a portable typewriter or should rent one from the School.

PARTIAL STUDENTS

A limited number of qualified students who are not candidates for the degree may be admitted to individual courses as partial students. Teachers and qualified persons may attend the special lectures. Before registration such students must satisfy the Faculty of the School of their ability to follow the courses selected, and they must fulfil all requirements of classroom work and tests prescribed for regular students of these courses. A certificate of attendance may be obtained on application to the Registrar of the University accompanied by the required fee; but no certificates shall be given for attendance at lectures unless the corresponding examinations have been passed. Such students can often more profitably attend the Evening Courses or the Summer Session, details of which may be obtained on application.

REGISTRATION AND ATTENDANCE

REGISTRATION:

- 1. Students in the Library School are required to present themselves at the office of the Library School some time during the seven week-days preceding the commencement of lectures, in order to furnish the information necessary for the University records, and to register for the particular courses which they wish to attend. For dates, see page 65.
- 2. At registration each student receives cards of admission to the courses he is to take.

ATTENDANCE:

- 1. Students are required to attend at least seven-eighths of the total number of lectures or laboratory periods in any one course.
- 2. Excuses on the ground of illness or domestic affliction are dealt with only by the Director of the School. Medical certificates covering absences must be presented by the student immediately after his return.
- 3. Those whose unexcused absences exceed one-eighth of the total number of lectures are not permitted to take the regular examination in that course; and those whose unexcused absences in such a course exceed one-fourth of the total number of lectures must repeat the work in that course for credit.
- 4. Lectures commence at five minutes after the hour, on the conclusion of the roll call. After the commencement of a lecture students are not allowed to enter, except with the permission of the instructor.

SCHOLARSHIP AND PRIZES

- 1. The Ethelwyn M. Crossley Scholarship Fund is available for women students. Details may be obtained on application to the Secretary of the School.
- 2. A book prize is given to the student who obtains the highest average in the year's work.

PHYSICAL EXAMINATION

- 1. All students entering the University are required by the Provincial Board of Health to present a certificate, or other satisfactory evidence, of successful vaccination within seven years, or of insusceptibility to vaccine within five years, failing which they shall at once be vaccinated in a manner satisfactory to the Medical Examiner.
- Students must also present a Certificate of Health, which may be obtained from the School and which should be filled in and signed by a physician.

FEES AND EXPENSES

1. REGULAR STUDENTS:

Fees are due and payable to the Bursar at his office on September 24, but they will also be received before that date. After October 15 or February 1 (as the case may be) an additional fee of \$2.00 is charged for payment after the specified dates.

Fee for the Library Course (including the use of the Library, and Diploma)	\$160.00
By instalments:	
First instalment	82.00
Second instalment	82.00
Fee for each supplemental examination	5.00

2. PARTIAL STUDENTS:

Fee for partial students, per point, in required courses	\$15.00
Fee for partial students, per point, in elective courses	12.50
Library fee for partial students taking less than two	
points, unless already registered at McGill	4.00
Certificate for partial students	1.00

Immediately after October 15 (or February 1, in the case of students who pay by instalments), the Bursar will send to the Director of the School a list of registered students who have not paid their fees. Such students cannot be re-admitted to classes except on presentation of a receipt signed by the Bursar certifying the payment of the necessary fees.

3. STUDENT ACTIVITIES:

A fee of \$3,00 is required of all students for Athletics and use of Athletic Grounds, and \$1.50 for the McGill Daily.

4. CAUTION MONEY:

Every student is required to deposit with the Bursar the sum of \$20.00 as Caution Money to cover damage done to furniture, books, apparatus, etc. This amount, less deduction (if any), will be refunded at the end of the session, on presentation of receipt.

5. FIELD WORK:

The Library School trip to New York in April is a required part of the Library Course, and students should allow a minimum of \$75.00 for this purpose.

6. TEXTBOOKS AND MATERIALS:

Students should allow approximately \$35.00 for textbooks, blank forms, cataloguing cards, and other library supplies needed during the session. These may be purchased at cost from the Secretary of the School. Portable typewriters may be rented, for use in the School only, at the rate of \$1.00 per month.

7. BOARD AND RESIDENCE:

Information about boarding and lodging houses may be obtained on application to the Secretary of the School. Board and lodging can be obtained in private houses in the vicinity of the Library at a cost of from \$35.00 to \$60.00 per month; or, separately, board from \$25.00 per month, and rooms from \$12.00 upward per month. Men students can obtain board at the McGill Union at low rates, either in the dining room or at the lunch counter.

- 8. Graduate Women's Hostel: (See page 461).
- 9. CLUBS AND SOCIETIES:

Women students of the School are eligible for membership in the Monteregian Club, 3426 McTavish Street, and in the University Women's Club, 3492 Peel Street, in the immediate neighbourhood of the School.

LIBRARY VISITS

The lectures and practice work of the School course are supplemented and illustrated by required professional visits and reports:

- (a) Visits to libraries, binderies, book shops, museums, and printing establishments in Montreal and its neighbourhood.
- (b) A week's visit, under the direction of members of the Faculty, to similar institutions in New York and adjacent cities.

PRACTICE WORK

After the final examinations, two consecutive weeks of practice work in a library of recognized standing are required. This affords the student an opportunity to acquire confidence in carrying out duties while under the supervision of an experienced librarian, and, at the same time, to observe how theories learned throughout the course are adapted to meet practical conditions.

ACADEMIC COSTUME

Bachelors of Library Science of McGill University are entitled to wear the regulation black Bachelor's gown and a Bachelor's hood of black lined with burnt orange silk and trimmed with white rabbit fur.

COURSES

Details of the courses are given in the special announcement of the Library School.

SCHOOL OF PHYSICAL EDUCATION

History and Aims.

The McGill School of Physical Education, which was established in 1912, has grown from a short summer course to a full three years' course (one year of which is spent in the Faculty of Arts and Science) and is now officially recognized by, and is an integral part of, McGill University. There is also a graduate course. The School has, since its inception, been fulfilling its purpose, to provide Canada with a training centre for teachers of physical education, with marked success.

The modern conception of education is one which includes the individual as a unit and which strives to link all subjects in an organic whole. The physical education of to-day contributes to general complete education by means of motor activities which develop desirable standards of conduct, wholesome attitudes, sound habits of thinking, and efficiency of the human machine.

The Field

The field for trained teachers in physical education is rapidly widening in scope to include such organizations as the following: Public and Private Schools; High Schools; Colleges; Y.M.C.A.'s; Y.W.C.A.'s; Church Clubs; Playgrounds; Recreation Centres; Welfare and Social Clubs; Settlements; Industrial Organizations; Boy Scouts; Girl Guides; Summer Camps, etc.

Courses Offered

For the Diploma:—One year in the Faculty of Arts and Science followed by a two-year course, from September to May, inclusive, is required for the Diploma of the School, and includes an analysis of the underlying principles of general education, educational psychology, the physical organism as a functioning unit, and a study of the possible contribution of physical education to the problems of modern civilization. Opportunity for practice teaching under staff supervision is provided.

For the Higher Diploma:—A one-year course available only for University graduates who show special aptitude for the teaching profession, good neuro muscular skill and who have, in their undergraduate work, completed courses considered relevant to further study in physical education.

Entrance Qualifications.

For the Diploma:—The completion of one year in the Faculty of Arts and Science.

For the Higher Diploma:—This Diploma is available only for students who hold a University degree, and who have covered satisfactory courses in their Undergraduate work.

General:—A natural aptitude for, and previous training in physical activities, together with a sense of rhythm, are essential. A student should know how to swim, play basketball and tennis, skate, and have had some instruction in gymnastics and dancing before entering.

Students who desire to follow this course, should consult with the head of the Department concerning detailed requirements in motor activities.

The programme of physical education places a rare opportunity in the hands of the instructor, and thus necessitates a forceful personality, guided by high ideals and aspirations, an understanding of people and an ability to organize and control group activities.

Facilities.

The University Library and Museums are available for use by the students, as are the University Hockey Rinks, Tennis Courts and the Percival Molson Memorial Stadium.

A special library of selected works and the leading magazines on physical education are available for use by the students.

Exceptional facilities are afforded for practice teaching and observation in the Public Schools under the Protestant Board of School Commissioners, and in various institutions throughout the City.

Residence (Women Students).

Residence in the Royal Victoria College is available for the students of the School of Physical Education. First and second year students, whose homes are not in Montreal, are expected to live in this building, and reservation should be made well in advance. Those who do not so apply are required to submit their plans for residence to the Director of the Department of Physical Education for approval. No sanction can be given to establishments of students in apartments, or elsewhere, unless such households are presided over by a parent or other responsible person approved by the University.

No room is assigned for a shorter period than the University session and plans should be made accordingly. Students who are requested to withdraw from the University are also required to withdraw from residence.

The charge for board and residence, in addition to the sessional fee for tuition, is \$470 (\$175 for room, \$295 for board) for the session. This may be paid in two equal instalments of \$235 in October and February. Room rent includes all expenses of heat and light (not other electrical attachments, for which fees are charged). These charges cover the University session from the day before the last day of registration (September 10th) until the day after Convocation for students of the second year and until the Monday after the session closes for first year students.

A deposit of \$10 is required when a room is reserved, and is deducted from the charges of the first term.

Costume for Women Students.

The regulation costumes of the School must be worn, and students will not be permitted to wear other than the regulation garments. Measurement blanks will be furnished upon registration and students will be advised where the costumes can be secured. A list of articles required, with approximate cost, will be sent to students on application.

Text-Books.

Students will be required to purchase text-books, as the University Library exists for supplementary reading only.

Student Organizations (Women).

All undergraduate women are members of the Women's Union of McGill University (official undergraduate society) and all its subsidiary associations.

Professional Opportunities.

Students will be required to attend lectures and performances of a professional nature from time to time, for which a small admission fee may be required.

Medical Examination.

In order to promote as far as possible the physical welfare of the student body, all students are required to be medically examined. The hours of such examination are announced at the beginning of the session. Any student who has failed to comply with this regulation before the first of November will be fined \$5. Any student who has failed to comply before the eighth of November will be fined an additional \$5. Any student who has failed to comply before the fifteenth of November will be suspended. Re-examinations are held frequently throughout the session.

Vaccination.

All students entering the University for the first time are required to present a certificate, or other satisfactory evidence, of successful vaccination within seven years, or of insusceptibility to vaccine within five years. Failing this, students must be vaccinated at once in a manner satisfactory to the medical examiner.

The penalties for non-compliance with this regulation are those stated above for the medical examination.

Health.

Provision is made by the Department for the care of the health of undergraduates during the session. If a student's admission to Hospital is requisitioned for by the Department, but not otherwise, one-half of all public ward charges is met by the University. A leaflet and handbook are distributed at the opening of the session. The University is not responsible for any accidents occurring during the course.

Admission.

Men and women students are admitted to the regular courses in the School. They will not be admitted if they are less than eighteen (18) or more than twenty-seven (27) years of age, except under special conditions. A personal interview is advisable, and applicants must have had some practical experience in physical work before registration.

A photograph and two references, one from a former teacher, must be sent direct to the School. Neither reference should be from a relative.

Partial students, both men and women, are admitted to special courses at the discretion of the Committee, and the work done may count toward the Diplomas of the School.

Regulations.

- 1. All students enter the School on an indeterminate probation. Students who are considered unsuitable for the profession are advised to discontinue.
- A student may at the discretion of the Committee be requested to withdraw at any time for reasons of unsatisfactory work or conduct.
- 3. Established University regulations are applicable in case of absences.
- 4. No student is permitted to participate in outside demonstrations, classes or teams, etc., without first having secured permission from the Director.

REGISTRATION AND FEES

REGISTRATION

Students in the School of Physical Education register at the Office of the School on September 9th to September 11th, and the opening lecture will be given on Thursday, September 12th. Students registering late are required to pay a late fee. Application forms should be returned not later than September 7th, 1935.

FEES

Regular Fees

1. Diploma Students

Annual fee	\$210.00*
By instalments: Each of two instalments	107.50*
Note:—The deposit fee of \$10.00 for residence accom	nmodation
made at the time of acceptance of application will be dedu	cted from
the charges for the first term (see page 444).	

2. Partial Students

Per hour of instruction per week, for full course \$10.00
The total partial fee will not exceed the full undergraduate fee.
Partial students taking courses in the Faculty of Arts and Science will pay the partial fees of that Faculty. (See page 99.)

Special Fees.

3	Late registration, after Sept. 11th	\$5.00
0.	Late registration, after Sept. 18th	10.00
	Supplemental Examinations (theory or practice)	10.00
	Receipts for supplementals must be shown to the Director's	
	Office before the examination.	
	Conferring Diploma in absentia	10.00
	Duplicate diploma	10.00
	Certified copy of student's record	1.00
	Additional copies (at same time)	.50
	Fine for late medical examination (see page 445) \$5.00 or	\$10.00

^{*}Includes Health, Registration, and Graduation fees.

4. Caution Money. Every student is required to make a deposit of \$10.00 as Caution Money to cover damage done to furniture, apparatus, books, etc. This amount, less deductions, is returned at the close of the session.

Students' Activities.

- 5. A sessional fee of \$12.00 for women, \$17.00 for men, is payable by all regular students for the support of student organizations, for the rinks and tennis courts and for admission to all home games under the control of the Athletic Board.
- 6. Partial students pay \$3.00 for athletics and athletic grounds. If they desire such of the privileges of Section 5 as are open to them, an additional \$5.50 will be charged.

General Regulations.

- 7. Dates for payment. Fees are due and payable at the Bursar's Office on Thursday, September 12th, between the hours of 9 a.m. and 1 p.m. and 2.30 to 4 p.m., but they may be paid before that date. The second instalment of tuition fees is due and payable on February 1st. An additional \$2.00 is charged for payment after the specified dates.
- 8. Students registering late pay their fees at the time of registration failing which they become subject to the provisions of Regulation 7.
- 9. Any student who fails to pay his fees within a month of the prescribed date is suspended until all the fees due have been paid.
- 10. All fees are payable in Canadian currency.

EXAMINATIONS AND PRIZES

Diplomas.

Diplomas are granted to successful students at the end of the course. Strathcona Certificates issued through the Strathcona Trust are granted to students on the completion of one year in the School.

The Diplomas of the School are recognized by the Protestant Committee of the Department of Education, Province of Quebec, and the Protestant Board of School Commissioners of Montreal as qualifying students who are British subjects for the rank of Specialist in the Public Schools.

Candidates for the Higher Diploma are urged to qualify for the High School Diploma, available through the Department of Education.

Prizes.

- 1. GOLD MEDAL.—The School offers a gold medal to the graduate student who attains the highest general proficiency throughout the course.
- 2. A Shield, presented by the Class of 1925, is awarded to the graduate student attaining the highest standing in practice teaching throughout the course and is held for one year by the student.
- 3. LIEUTENANT-GOVERNOR'S SILVER MEDAL.—This medal is awarded to the Senior Student of the undergraduate course, who attains the highest general proficiency throughout the course.
- 4. A Cup, presented by the Class of 1916, is held for one year by the Senior Student of the undergraduate course who attains the highest standing in practical work.
- 5. LIEUTENANT-GOVERNOR'S BRONZE MEDAL.—This medal is awarded to the Junior Student of the undergraduate course who attains the highest general proficiency in the sessional examinations.
 - (N.B. Prizes may be withheld at the discretion of the Committee.)

COURSES OF INSTRUCTION

For the Undergraduate Diploma

The Committee reserves the right to amend or cancel any of the courses stated below.

Year I.

Anatomy.

Physiology 1. (See page 150.)

Psychology 1. (See page 151.)

Principles of Physical Education 1.

Elective: (To be selected from courses in the Faculty of Arts and Science and approved by the Director).

Physical Education Practice to include:

Theory and Practice of Games 1.

Theory and Practice of Dancing 1.

Theory and Practice of Fundamental Gymnastics 1.

Winter Sports.

Advanced Swimming.

Year II.

Personal and Community Hygiene.

Physiology of Exercise.

History of Physical Education.

Principles of Physical Education 2.

Physical Education Methods.

Physical Education Practice to include:

Theory and Practice of Games 2.

Theory and Practice of Dancing 2.

Theory and Practice of Fundamental Gymnastics 2.

Winter Sports.

THEORY—YEAR I

Anatomy

The emphasis in this course will be upon the body as a living mechanism, in which the functions and structure are inseparably related and in which the activities of all parts are intimately co-ordinated. It will run concurrently with, and closely parallel to, the course in physiology. 2 hrs. 1 hr. Lab. Texts: Anatomy and Physiology, Williams (Saunders Co.).

Physiology 1

See page 150.

Psychology 1

See page 151.

Principles of Physical Education 1

An analysis of the aims of physical education and their relationship to those of general education. The study of programme construction in relation to the adaptation of the activities to the physical, mental, social and moral development of the child.

The principles underlying the health programme, follow-up methods and procedures in a programme which will make it effective in maintaining a healthy student body.

The nature and function of play, its relation to the psychological development of the chill. The contribution of organized play to society and the principles underlying such organizations.

Standards for judging the teaching and measuring results; the principles of progression; the extra curricular programme and its guidance; the responsibilities, policies and relationships of the teacher of physical education.

3 hrs. Texts: Theory of Organized Play, Bowen & Mitchell; Practice of Organized Play, Boven & Mitchell (Barnes); The Child and Play, Rogers (Century).

Elective

(To be selected from courses in the Faculty of Arts and Science and approved by the Director of Physical Education.)

THEORY—YEAR II

Personal and Community Hygiene

An elementary study of the more common pathogenic organisms and communicable disease; their relation to health; precautions against, and means of combating, patrogenic organisms.

Health organizations and the means for the maintenance of health; the effect of various occupations on health; the laws of healthful living and the responsibility of the individual.

2 hrs. Texts: Personal Hygiene Applied, Williams (Saunders).

Physiology of Exercise

A study by lectures and demonstrations of the effects of exercise on the neuro-muscular system, metabolism, respiration, circulation, etc. The effects of various types of exercise will be studied in relation to the working power of the human machine and consideration given to the underlying principles in the selection of the best methods of exercise to employ. 3 hrs. 1 hr. Lab. Texts: Physiology of Exercise, Gould & Dye (Barnes), Bainbridge (Longmans Green), Schmidt & Sputh (Davis), McCurdy & McKenzie (Lea & Febiger) Schneider (Saunders).

History of Physical Education

The material of this course aims to show the history of physical education as a direct outcome of the conditions of the time and place, and the principles and practices of general education.

The study will start with the conditions and life activities of primitive man and proceed through the great Empires of China, Persia, India, Greece and Rome, to the conditions during the Dark Ages and the Renaissance. It will then trace the rise of the Nations of the World. A study will be made of conditions of the time, the contribution of the great educators, the resulting movements of physical education and their influence upon the present day.

3 hrs. Texts: Brief History of Physical Education, Rice, (Barnes); History of Education, Cubberley (Houghton & Mifflin).

Principles of Physical Education 2

A continuation of Course 1, including a study of therapeutic gymnastics, corrective exercises and massage; the construction of a programme to meet the needs of those students whose health condition precludes participation in activity. Procedures in posture training.

Construction of curricula suitable for varying conditions and means by which their effectiveness may be determined.

3 hrs. 1 hr. Lab.

Physical Education Methods

The material for this course will include a study of the current methods in general education and their definite application to the teaching of physical education. Consideration of methods in the organization and administration of physical education.

Principles and methods of health teaching will be included and a study made of the health education programme. This consideration is a continuation of the course in Personal and Community Hygiene (Year 1) and involves a study of ways and means of teaching the health material to children of different ages, so that it will lead to better habits of living and become effective in life.

The laboratory work of this course will consist of actual teaching under supervision, so as to offer a pupil the opportunity to put into practice the methods studied in the course.

4 hrs. 2 hrs. Lab. Texts: Physical Education, Williams (Macmillan); Progressive Methods of Teaching, Stormzand (Houghton & Mifflin); Princ. & Tech. of Teaching, Thomas (Houghton & Mifflin); Foundations of Method, Kilpatrick (Macmillan); Health Education Report of Jt. Committee under Natl. Edn. Assn. and Am. Medical Assn. (Pub. by Natl. Edn. Assn., Washington, D.C.).

ACTIVITY COURSES-YEARS I and II

Theory and practice of games and athletics:

Year I: Games of low organization suitable for young children, badminton.

Year II: Advanced basketball, baseball, ice hockey, organization for mass activities.

During the fall outdoor season of each year, the work will include track and field, tennis, field hockey, archery, etc.

Theory and practice of dancing (for women):

Year I: Folk and Interpretative dancing, Theory of the dance.

Year II: National and Character, Interpretative, Theory of the dance.

Theory and practice of gymnastics:

Year I: The theory of body mechanics; fundamentals of Danish and rhythmical gymnastics; tumbling, self-testing activities; apparatus.

Year II: Advanced theory and practice in the subject matter of Year I.

Aquatics: Years I and II.

Students are expected to know how to swim with a fair degree of ability before entering the School. Special attention will be given to advanced work in swimming, diving, life saving and other aquatic events.

FOR THE GRADUATE HIGHER DIPLOMA

Selected requirements from subjects in the I and II years, in accordance with the needs of the student. The time required to complete the work for this diploma depends upon the qualifications of the student.

- (a) Assigned study of special problems.
- (b) Extended reading.
- (c) Seminars.
- (d) Essay.

THEORY

A careful analysis will be made of work covered in the undergraduate years and the theoretical course will be arranged accordingly.

Students will be assigned to undergraduate courses in cases where it seems advisable, and in other instances will be assigned to independent work under different instructors.

An essay must be presented at the end of the course, giving evidence of a thorough grasp of the work, and written in good literary style.

ACTIVITY COURSES

Students will be assigned to regular undergraduate courses when deemed necessary. Special opportunities will be provided in those activities for which students are specially qualified. Practice Teaching will take place in the University classes during the first term, and in the Public Schools during the second term.

SCHOOL FOR GRADUATE NURSES

COURSES, DIPLOMAS AND CERTIFICATES

Conditions governing registration for students in the School for Graduate Nurses are stated under Entrance Requirements.

The Courses offered in the School prepare qualified nurses to act as instructors, supervisors, assistants, or superintendents and directors in schools of nursing and hospitals, and in public health nursing. The curricula consist of advanced professional courses with academic courses in education and the underlying biological, physical and social sciences. These academic courses are available in the Faculty of Arts and Science and in the Department of Public Health and Preventive Medicine, Faculty of Medicine.

The University and Faculty Libraries as well as the professional library of the School are available to all students,

Facilities for the study of modern nursing and for observation and practice in teaching, in supervision and in administration of hospitals and schools of nursing are offered in the following hospitals connected with the University:—the Alexandra Hospital, the Children's Memorial Hospital, the Montreal General Hospital, the Royal Victoria Hospital, the Royal Victoria Montreal Maternity Hospital, the Shriners' Hospital for Crippled Children.

Ample opportunities for study and field work in all branches of community health and social welfare are provided by the following:—
The Child Welfare Association, the Family Welfare Association and other social agencies, the Mental Hygiene Institute, the Municipal Health Department, the Victorian Order of Nurses, maternity clinics, medical social service departments of hospitals, Royal Edward Institute Tuberculosis Clinic, industrial clinics.

COURSES FOR DIPLOMAS AND CERTIFICATES

The following courses representing four fields of major interest in nursing and leading to certificates or diplomas are offered:—

- I. Teaching in Schools of Nursing.
- II. Supervision in Hospitals and Schools of Nursing.
- III. Administration in Hospitals and Schools of Nursing.
- IV. Public Health Nursing.
- V. Administration and Supervision in Public Health Nursing. Prerequisite—Course IV.

ENTRANCE REQUIREMENTS

(1) PROFESSIONAL REQUIREMENTS

- 1. All applicants must present evidence of the satisfactory completion of the undergraduate professional course in nursing in a school of nursing of approved standards. Applicants must also be registered when coming from a state or province where registration is in force and must be eligible for membership in the state, provincial and national nursing organizations.
- 2. Applicants for the more advanced courses (Supervision and Administration) must present evidence of adequate experience and qualifications.

(2) ACADEMIC REQUIREMENTS

Applicants must present evidence of matriculation standing, with the following exception: *Mature* applicants who fail to meet the required matriculation standard but who present exceptional professional and personal qualifications may, at the discretion of the Director, be admitted as partial students or as candidates for a certificate or diploma in nursing in one of the major courses offered.

Matriculated students admitted to the School as candidates for a certificate or a graduate diploma in nursing may register as partial students in the Faculty of Arts and Science, the courses taken, with the approval of the Dean, being later credited, if desired, toward a Bachelor of Arts or Bachelor of Science degree.

(3) PHYSICAL REQUIREMENTS

These conform to the health standards required by the University. Applications must be accompanied by a certificate of medical examination and of successful vaccination within seven years, or of insusceptibility to vaccine within five years upon forms supplied by the School in accordance with provincial health regulations. In addition, students are required to report for the health examination conducted by the Department of Physical Education. (Students reporting for this examination after November 1st are required to pay a fine of \$5.00, and any student who has failed to comply before the 8th of November, will be fined an additional \$5.00.)

APPLICATION FOR ADMISSION

Candidates for admission to the School should make application on the prescribed forms which may be obtained from the Director, School for Graduate Nurses, McGill University.

REGISTRATION AND ATTENDANCE

1. REGISTRATION

Students in Public Health Nursing will register on September 4th for field work.

Other students will register on September 26th to 28th; up to noon on the 28th.

The opening lecture will be given on September 30th.

Students are required to consult the Director at the time of registration.

2. ATTENDANCE

The attendance regulations are those of the Faculty of Arts and Science and will be posted on the Notice Board at the beginning of the session (see page 102).

SCHOLARSHIPS, MEDALS, PRIZES AND EXAMINATIONS

SCHOLARSHIPS

1. Alexandra Hospital.

The Board of Governors offers a scholarship for 1935-36 in the form of maintenance at the hospital during a year's study at the School for Graduate Nurses. Members of the hospital nursing staff are eligible.

2. Association of Registered Nurses of the Province of Quebec.

A scholarship of \$150.00 to a graduate of an approved school of nursing in the Province of Quebec for any course selected in the School for Graduate Nurses.

3. Children's Memorial Hospital School of Nursing.

The Board of Governors offers a scholarship in the form of maintenance at the hospital during one year's study at the School for Graduate Nurses.

4. Flora Madeline Shaw Memorial Fund.

A scholarship of \$250.00 is offered in memory of Miss Flora Madeline Shaw to nurses wishing to take a course at the School for Graduate Nruses. Registered nurses who have matriculation standing are eligible.

5. Montreal General Hospital School of Nursing.

1. The Mildred Hope Forbes Memorial Scholarship, established by Mrs. Norman Wilson in memory of the late Mildred Hope Forbes, a graduate of the Montreal General Hospital School for Nurses.

2. The Alumnæ Association of the Montreal General Hospital School of Nursing offers a scholarship. Only members of the Alumnæ Association are eligible.

6. Royal Victoria Hospital School of Nursing.

- 1. The Board of Management offers an annual scholarship for a year's study at the School for Graduate Nurses.
- 2. The Alumnæ Association of the Royal Victoria Hospital School of Nursing offers the Dr. Garrow Scholarship for a year's study at the School for Graduate Nurses.
- 3. A scholarship in the form of maintenance at the hospital during a year's study at the School for Graduate Nurses.
- 4. Harry J. Crowe Scholarship of \$600.00 to a graduate of the Royal Victoria Hospital for a course in nursing or dietetics in a Canadian university.

7. Shriners' Hospital for Crippled Children.

The Board of Governors of the Montreal Unit offers a scholarship of \$100.00 and maintenance at the hospital during a year's study at the School for Graduate Nurses.

8. Victorian Order of Nurses for Canada.

The Victorian Order of Nurses for Canada offers a limited number of scholarships of \$400.00 each for a graduate course in Public Health Nursing at any Canadian University where this course is given. Upon successful completion of her course, the holder is expected to return to the service of the Victorian Order of Nurses for one year.

MEDALS AND PRIZES

The Lieutenant-Governor of the Province of Quebec offers annually for competition a silver medal to the student obtaining the highest standing in the course of Teaching in Schools of Nursing, and a bronze medal to the student obtaining the highest standing in the course in Public Health Nursing.

EXAMINATIONS

The pass mark in all examinations, in keeping with University regulations, is fifty per cent.

Results of examinations are recorded according to class, as follows: Class I, 75% to 100%; Class II, 60% to 74%; Class III, 50% to 59%.

In the case of students who do field work, satisfactory reports must also be received from the agencies with which their field work has been taken.

FEES AND DEPOSITS

Tuition Fees

1.	For the regular certificated courses, per session	\$160.00
	By instalments; First instalment	81.00
	Second instalment	81.00

2. Registered students not proceeding to a Diploma or Certificate are classed as Partial Students and pay \$14.00 per hour of instruction per week for a full course, but the maximum fee shall not exceed that charged for a regular certificated course.

Partial Students taking courses in the Faculty of Arts and Science will pay the partial fees of that Faculty. (See page 99.)

3. Fees are due and payable at the Bursar's Office between the hours of 9 a.m. and 1 p.m., and 2.30 to 4 p.m. on:—

Monday, September 30th,

or if desired they may be remitted by mail before the above date. The second instalment of tuition fees is due and payable on February 1st. An additional \$2.00 is charged for payment after the specified dates.

Other Fees

- 4. A Sessional fee of \$12.00 is payable by all regular students, for the support of student Organizations, for the rinks and tennis courts and for admission to all home games under the control of the Athletic Board.
- 5. Partial students pay \$3.00 for athletics and athletic grounds. If they desire such of the privileges of Section 5 as are open to them, an additional \$5.50 will be charged.

Office before the examination.	
Conferring the Diploma in Absentia	10.00
Duplicate Graduation Diploma	10.00
Certified copy of student's record	1.00
Additional copies (at same time)	

- 7. Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of regulation 4.
- 8. Immediately after the prescribed dates for the payments of fees, a list of the registered students who have not paid their fees is sent to the Director of the School, who removes their names from the register of attendance. Such students cannot be readmitted to any class until instructions have been received from the Bursar that the fees have been paid.
- 9. All fees are payable in Canadian currency.

BOARD AND RESIDENCE

Accommodation is available in the Graduate Women's Residence, 3466 University Street. The charge for a single room is \$170.00 for the session of eight months, and \$150.00 per student in a double room. Payment may be made in two instalments, at the beginning of the first term and at the beginning of the second term. An additional charge of \$5.00 is made in the case of instalments. No room is assigned for a shorter period than the University session.

It is necessary to make arrangements for the above accommodation in advance, and a deposit of \$10.00 must be forwarded with the application. Applications should be forwarded to Miss E. S. Nicholson, Registrar's Office, McGill University.

Students in residence may arrange to have their meals at the Royal Victoria College, the undergraduate residence. The charge for meals for the session (not including vacations), is \$320.00 for breakfast, lunch and dinner, and \$220.00 for breakfast and dinner.

Accommodation in the above residence is limited to twenty students. Information about boarding and lodging houses may be had on arrival at the School. Every assistance is given to students in finding suitable rooms but it is necessary for the student to make arrangements in person.

EXPENSES

Approximate Cost of the Course:—Students who register in those courses requiring field work will take this extra time into consideration in estimating their expenses. Estimate of average expenses for the academic year (30-32 weeks) is as follows:

University fees	\$160.00		
Books, etc	. 20.00	to	\$ 40.00
Board and lodging	. 385.00	16	500.00
Incidentals	. 30.00	44	40.00
Average total	. 595.00	44	740.00

COURSES OFFERED

TEACHING IN SCHOOLS OF NURSING

Diploma—"Instructor in Schools of Nursing."
Adviser: Miss Lindeburgh.

This course prepares qualified nurses for positions as instructors in Schools of Nursing.

Diploma Course (two years):—The diploma is granted for the satisfactory completion of the Required Courses listed under First and Second Years, together with one or more Suggested Electives.

Certificate Course (one year):—A certificate is granted for the satisfactory completion of the Required Courses listed below under the First Year. Students may be permitted to include one or more of the suggested electives with the approval of the Director.

FIRST YEAR

SECOND YEAR

(Certificate)

(Diploma)

(a) General Academic

Required:-

Required:-

9. Psychology I.

19. Sociology I.

Suggested Electives:—1. Economics I; 3. English I; 3A. English II; 4. French I; 5. History I; 7. History IV; 10. Psychology VI; 11. Psychology VII; 13. Public Speaking.

(b) Professional Courses in Education

Required:-

Required:

25. Education I.

24. Psychology IX.

26. Education II.

Suggested Electives:-51. Philosophy I.

(c) Nursing Education—General

Required:-

Required:-

- 30. Nursing Legislation.
- 37. Public Health and Preventive Medicine (First Term) or
- 38. Public Health Nursing (First Term)
- 47. History of Nursing.
- 37. Public Health and Preventive Medicine (First Term) or
- 38. Public Health Nursing (First Term).

(d) Nursing Education—Teaching in Schools of Nursing

Required:

31A. Bacteriology I or

17. Physiology I, or

15. Chemistry XVI.

50. Teaching in Schools of Nursing.

Required:

31A. Bacteriology I or

17. Physiology I, or

48. Pharmacology and Therapeutics.

50A. Teaching in Schools of Nursing.

Suggested Electives:-15A. Biochemistry.

SUPERVISION IN HOSPITALS AND SCHOOLS OF NURSING

Diploma—"Supervisor in Hospitals and Schools of Nursing."

Adviser: Miss Lindeburgh.

This course prepares qualified nurses for positions as clinical instructors, supervisors, and assistant superintendents, in schools of nursing. Previous experience as a head nurse or an equivalent executive or teaching experience is required.

Diploma Course (two years):—The diploma is granted for the satisfactory completion of the required courses listed under First and Second Years, together with one or more suggested electives.

Certificate Course (one year):—A certificate is granted for the satisfactory completion of the Required Courses listed below under the First Year. Students may be permitted to include one or more of the Suggested Electives with the approval of the Director.

FIRST YEAR

(Certificate)

SECOND YEAR

(Diploma)

(a) General Academic

Required:

Required:

9. Psychology I, or

9. Psychology I, or

19. Sociology I.

19. Sociology I.

Suggested Electives:—21. Sociology IV; 22. Sociology VII; 1. Econonics 1; 3. English I; 3A. English II; 4. French I; 5. History I; 7. History IV; 10. Psychology VI; 11. Psychology VII; 13. Public Speaking.

(b) Professional Courses in Education

Required:-

25. Education I.

Required:-

24. Psychology IX.

26. Education II.

Suggested Electives: -51. Philosophy I.

(c) Nursing Education—General

Required:-

- 34. Mental Hygiene.
- 37. Public Health and Preventive Medicine (First Term) or
- 38. Public Health Nursing (First Term).
- 30. Nursing Legislation.

Required:-

- 33. Health Education.
- 37. Public Health and Preventive Medicine *or*
- 38. Public Health Nursing.
- 47. History of Nursing.

(d) Nursing Education—Supervision in Schools of Nursing

Required:-

- 45. Supervision in Schools of Nursing.
- 50. Teaching in Schools of Nursing.

Basic Sciences:

31A. Bacteriology I or

17. Physiology I or

15. Chemistry XVI.

Required:-

Basic Sciences:

31A. Bacteriology I or

17. Physiology I.

48. Pharmacology and Therapeutics.

*Specialized Supervision:

(One of the following)

Communicable Diseases.

Medicine.

Mental Hygiene.

Obstetrics.

Out-Patient Department.

Operating Room.

Pediatrics.

Surgery.

^{*}Specialized Supervision:—Advanced courses and six weeks' experience in one of the above departments with related courses selected from suggested electives.

ADMINISTRATION IN HOSPITALS AND SCHOOLS OF NURSING

Diploma—"Superintendent of Nursing and Director of School of Nursing."

This course prepares qualified candidates for positions as superintendents and directors in schools of nursing (see page 455).

Diploma Course:—The complete course outlined below, leading to the diploma, covers two academic years, together with the required field work, unless preceded by a year's study in either Course I or Course II outlined above.

Certificate Course (one year):—A certificate is granted for the satisfactory completion of the Required Courses listed below under the First Year. Students may be required to include one or more of the suggested electives, and must complete field work of from three to six weeks (depending upon previous experience) at the close of session.

FIRST YEAR

SECOND YEAR

(Certificate)

(Diploma)

(a) General Academic

Required:-

9. Psychology I. 19. Sociology I.

Required:—
3A. English II.

270

5. History I.

21. Sociology IV or 22. Sociology VII.

Suggested Electives:—1. Economics I; 3. English I; 4. French I; 5. History I; 7. History IV; 10. Psychology VI; 11. Psychology VII; 13. Public Speaking.

(b) Professional Courses in Education

Required:

Required:-

25. Education I.

24. Psychology IX.

26. Education II.

Suggested Electives:-51. Philosophy I.

(c) Nursing Education—General

Required:-

- 30. Nursing Legislation.
- 34. Mental Hygiene.
- 37. Public Health and Preventive Medicine (First Term) or
- 38. Public Health Nursing (First Term).
- 47. History of Nursing.
- 50. Teaching in Schools of Nursing (A).

Required:-

- 33. Health Education.
- 37. Public Health and Preventive Medicine (First Term) or
- 38. Public Health Nursing (First Term). Any two of the following:
- 14. Bacteriology I.
- 15. Chemistry XVI.
- 17. Physiology I.
- 48. Pharmacology and Therapeutics.

(d) Nursing Education—Administration

Required:-

- 27. Administration in Schools of Nursing.
- 29. Hospital Economics and Administration.

Required:-

- 45. Supervision in Schools of Nursing.
- 27A. Special Problems in Administration.

PUBLIC HEALTH NURSING

Diploma-"Public Health Nurse."

Adviser: Miss Mathewson

Diploma Course (two years):—The complete course covers a period of two academic years together with required field work. The second year is devoted to more advanced study and special consideration is given to adjustment of the programme to meet a definite interest in any particular field.

Certificate Course (one year):—A certificate is granted for the satisfactory completion of the required first year courses together with the required field work. Students may be permitted to include one or more of the suggested electives with the approval of the Director.

The courses required for *all* students in the Second Year are indicated below. Additional courses and field experience are subject to individual arrangement.

FIRST YEAR (Certificate)

SECOND YEAR (Diploma)

(a) General Academic

Required:-

Required:-

9. Psychology I or 19. Sociology I.

Dependent upon field of specialization.

Suggested Electives: -1. Economics I; 3. English I; 3A. English II; 4. French I; 5. History I; 7. History IV; 10. Psychology VI; 11. Psychology VII; 13. Public Speaking.

(b) Professional Courses in Education

Required:-

Required:—

25. Education I Dependent upon field of specialization.

Suggested Electives: -24. Psychology IX; 26. Education II.

(c) Nursing Education—General

Required:-

Required:-

34. Mental Hygiene.

30. Nursing Legislation.

37. Public Health and Preventive Medicine.

47. History of Nursing.

(d) Nursing Education—Public Health Nursing

Required:-

Required:-

31. Bacteriology in Public Health.

Specialization in one of the fields of Public Health

32. Child Hygiene. 33. Health Education. Nursing with appropriate field work and related courses selected from sug-

35. Nutrition. 38 Public Health Nursing.

gested electives.

39. Social Case Work.

Suggested Electives:-1B. Social and Industrial Legislation; 15. Chemistry XVI; 17. Physiology I.

PRACTICE WORK IN PUBLIC HEALTH NURSING

Ten weeks of practice in Public Health Nursing are arranged during September and in May and June following the examinations.

Students are not expected to repeat experience gained under satisfactory conditions. Adjustment of field work is made in each case.

Weekly conferences are held in connection with this work and written reports are required.

Practice work may be arranged with the following:

Child Welfare Association.

Family Welfare Association.

Industrial nurses.

Mental Hygiene Institute.

Montreal Department of Health, Division of Child Hygiene.

Outremont Public Health Department, School Nursing. Social Service Department of the Hospitals.

Victorian Order of Nurses.

Royal Edward Institute (Tuberculosis Clinic).

Plans are being made to secure rural practice work in one of the County Health Units near Montreal.

Students are reminded that it is only through the courtesy of the agencies that field work is available and are asked to comply whole-heartedly with both the letter and spirit of all regulations of the organizations.

When working with the Victorian Order of Nurses, the students are asked to wear a plain one or two-piece dress of washable material in gray or blue, with white collar and cuffs and a black Windsor tie. Plain dark hat and coat must also be provided.

ADMINISTRATION AND SUPERVISION IN PUBLIC HEALTH NURSING

Diploma—"Supervisor in Public Health Nursing."

Adviser: Miss Mathewson

The course is offered in the Second Year only. The First Year of Course IV or its equivalent, and at least one year of satisfactory experience, are prerequisite.

The diploma is granted for the satisfactory completion of the required courses listed, together with two or more full courses from the suggested electives and the required field work.

(a) General Academic

Required:-

One of the following: (and) One of the following

11. Psychology VII. 3A. English II.

21. Sociology IV. 5. History I.

22. Sociology VII. 7. History IV.

Suggested Electives:—2. Economics I; 3. English I; 4. French I 10. Psychology VI; 13. Public Speaking; 51. Philosophy I.

(b) Professional Courses in Education

Required:-

24. Psychology IX.

Suggested Elective: -26. Education II.

(c) Nursing Education—General

Required:-

30. Nursing Legislation.

47. History of Nursing.

Suggested Electives:—1B. Social and Industrial Legislation; 15. Chemistry XVI; 17. Physiology I.

(d) Nursing Education—Supervision in Public Health Nursing

Required:-

44. Special Problems in Supervision.

46. Administration and Supervision in Public Health Nursing.

Two hours, second term Mire Hayword and Miss Chambers.

34A; Mestal Hyglene and Paychianey,

COURSES IN THE SCHOOL FOR GRADUATE NURSES

13.	Public Speaking. One hour, second term
27.	Administration in Nursing Schools. Three hoursMiss Lindeburgh and other Instructors.
	. Special Problems in Administration. Conferences, discussion and reports. One hour(Not given 1935-36)
29.	Hospital Economics and Administration. Two hours, first term
30.	Nursing Legislation. Two hours, second term
31.	Bacteriology in Public Health. Two hours, first term
32.	Child Hygiene. Three hours, first term. Miss Beith, Miss Lindeburgh and Dr. Alan Ross
33.	Health Education. Two hours, second term Miss Mathewson and Miss Lindeburgh.
34.	Mental Hygiene and Psychiatry. Two hours, second term
34A	A. Mental Hygiene and Psychiatry. Prerequisite 34
35.	Nutrition and Health. Two hours, second termMiss Hayward and Miss Chambers.

37.	Public Health and Preventive Medicine.
	Three hours
38.	Public Health Nursing. Three hours
39.	Social Case Work. Two hours, second term
44.	Special Problems in Supervision in P.H.N. One hourMiss Mathewson and other Instructors.
45.	Supervision in Nursing Schools. Two hours, second termMiss Lindeburgh and clinical Supervisors.
46.	Administration and Supervision in Public Health Nursing. Three hours
47.	History of Nursing. One hour
50.	Teaching in Schools of Nursing. Three hoursMiss Lindeburgh and other Instructors. A. Nursing Education—(First Term). B. Principles and Methods of Teaching (Second Term).

C. Observation and Practice in Teaching.

COURSES IN THE FACULTY OF ARTS AND SCIENCE

- 1. Elements of Political Economy (Economics 1). Second Year. Mon., Wed., Fri., at 11......... Professor Culliton and Mr. Forsey.
- 3. English Composition (English 1).

Sat., at 12..... Professor Noad, Miss Mackenzie, Mr. George and Assistants. Section and weekly conference hours to be arranged.

3A. English Literature (English 2).

General Course from Anglo-Saxon times to the present day.
Tu., Th., and, at the pleasure of the instructor, Sat. at 12.

Professor Macmillan and Assistants.
Mr. McBain will have the general direction of the tutorial conferences.

4. French Language (French 1). First Year.

Section A, Mon., Wed., Fri., at 9; Section B, Mon., Wed., Fri., at 11. Professors Villard, Lemaitre, Furness, d'Hauteserve and Mlle Henry.

5. General History of Europe, from the Break-up of the Roman Empire to 1914 (History 1A). First Year.

Tu., Th., Sat., at 11.....

6. General History of North and South America (History 2).
Second Year.

7. History of Canada (History 4). Third Year.

Tu., Th., Sat., at 9.....

- Introduction to Psychology (Psychology 1). Second Year.
 Mon., Wed., at 10, and two laboratory periods to be arranged.
 Professor Tait and Mr. Webster.

10.	Child Psychology (Psychology 6). Third and Fourth Years.	
	First term: Tu., Th., Sat., at 10	

- 15. Elementary Chemistry (Chemistry 16). Tues., Thurs. at 9.

Two hours lectures, three hours laboratory Professor Hatcher.

15A. Biochemistry—(Biochemistry 1).

- (a) Lectures: Monday, Wednesday, Friday at 9.
- (b) Laboratory: Two 3-hour periods weekly, selected from Monday and Friday mornings, Tuesday and Thursday afternoons.
- 17. Physiology, Introductory Course (Physiology 1).

 Mon., Wed., Fri. at 9.
- 18. General Zoology (Zoology 1).

- Introduction to the Study of Society (Sociology 1). Second Year.
 - (a) Tu., Th., Sat. at 12...... Professors Dawson and Hughes.
 - (b) Tu., Th., Sat. at 11..........Professors Dawson and Hughes

22.	The Fam	ily (Sociology 7).	Third and Fourth	Years.
	(Given in	1936-37)	01 16 . 102 . dT	Professor Dawson.

 The Sociology of the Child (Sociology 9). Third and Fourth Years.

First term: Mon., Wed., Fri. at 9...... Professor Hughes.

 Educational Psychology (Psychology 9). Third and Fourth Years.

Prerequisites:—Psychology 2 or 3, or Education 1, taken previously or concurrently.

- 31A. Bacteriology 1.
 - 30 lectures and 60 hours' practice work and a weekly tutorial class. February to April...........Professor Murray and Assistants.
- 51. Introduction to Philosophy (Philosophy 1).

Tu. (Conference), Th., Sat. at 10..... Professors Hendel, Maclennan and Dr. Fulton.

MACDONALD COLLEGE

FOUNDATION

Macdonald College, which is incorporated with McGill University, was founded, erected, equipped, and endowed by the late Sir William C. Macdonald.

SITUATION AND EXTENT

The College occupies a beautiful site, overlooking the Ottawa River at Ste. Anne de Bellevue, Que., twenty-five miles west of Montreal. The postal address is Macdonald College, Que.

The College property comprises 786 acres, and has been arranged into four main areas, viz.: (1) the campus, with lawn and recreation fields for students of both sexes; (2) the experimental grounds, with plots for illustration and research in grains, grasses, and other farm crops; (3) the horticulture and poultry departments; and (4) the stock farm.

GENERAL ORGANIZATION

The College contains:

- (1) The Faculty of Agriculture,
- (2) The School of Household Science.
- (3) The School for Teachers,

ENTRANCE REQUIREMENTS

For complete details see the separate announcement of the College.

Faculty of Agriculture.

Junior Matriculation. For details see page 70.

School of Household Science.

All candidates for admission:-

- (a) To the homemaker course, must have entered their eighteenth year and completed grade VII of the Province of Quebec, or its equivalent.
 - (b) To the institution administration course, should have entered their twenty-first year and must have passed the McGill Junior Matriculation Examination for entrance to the Science Division of The Faculty of Arts and Science (see page 70). or an equivalent examination. (See page 71.)

- (c) To the four-year degree course must have passed the Junior Matriculation (Science Division), or an equivalent examination.
- (d) To the short courses must have entered their eighteenth year and have a good general education.
- 2. Must produce satisfactory evidence as to moral character; also medical certificate of health, including successful vaccination within the six years preceding date of entrance.

School for Teachers.

Teachers to be trained for the schools under the control of the Protestant Committee of the Council of Education for the Province of Quebec are admitted under conditions prescribed by that body, particulars concerning which are given in detail in the Announcement of Macdonald College.

DEGREE COURSES

BACHELOR OF SCIENCE IN AGRICULTURE, B.Sc. (Agr.)

A four year course in the Faculty of Agriculture.

Tuition Fees

T

First and Second Years-

Sons, daughters, etc., of farmers of the Province of Quebec, of the
Ottawa Valley in Ontario, and of the Maritime Provinces Free Other residents of Canada \$ 50.00 per year
Students from outside of Canada\$100.00 per year

Third and Fourth Years-

Residents of Canada\$ 50.00 p	er year
Students from outside of Canada\$100.00 p	er year

For higher degrees in agricultural subjects see page 385.

BACHELOR OF HOUSEHOLD SCIENCE B.H.S.

(Women only)

uition	tee tor	Canadians	 	 	\$100.00
uition	fee for	non-Canadians			125 00

DIPLOMA COURSES

For details of the diploma courses in Agriculture and Household Science see the separate announcement of the College which may be obtained from the Registrar, Macdonald College, Que.

DEPARTMENT OF PHYSICAL EDUCATION

Men Students

The requirements for men students are given on page 161.

Women Students

The requirements for women students are given on page 163.

Health Service

Details of the University's Health Service are given on page 95.

Medals and Prizes

I. FOR MEN

The Wicksteed silver and bronze medals for physical education (the gift of the late Dr. R. J. Wicksteed) are offered for competition to students of the graduating class and to students who have had instruction in the gymnasium for two sessions; the silver medal to the former, the bronze medal to the latter. The award of these medals is made by judges appointed by the University Committee on Physical Education. Every competitor for the silver medal is required to lodge with the judges, before the examination, a certificate of good standing in the graduating class, signed by the Dean of the Faculty to which he belongs, and the medal is not awarded to any student who fails in his examination for the degree.

Further information concerning the regulations and the work of the Department may be obtained from the Director, Dr. A. S. Lamb, 3484 University St.

II. FOR WOMEN

STRATHCONA PRIZES.—The Department of Physical Education in conjunction with the M.W.S.A.A., offers a prize for competition in each of the four years of the Faculty of Arts and Science. Details of the competition are announced at the beginning of each session.

MILITARY TRAINING

CANADIAN OFFICERS' TRAINING CORPS

HONORARY COLONEL:—LIEUT.-COLONEL A. A. MAGEE, D.S.O., B.A.

OFFICER IN COMMAND:-LIEUT.-COLONEL E. B. Q. BUCHANAN, B.C.L.

The McGill University contingent of the Canadian Officers' Training Corps was organized two years before the Great War, and is a unit of the Active Militia, being governed by special regulations, under which it cannot be called out for active service as a unit.

Members are prepared for two certificates, A and B. To obtain a Certificate A (Lieutenant's) a member must complete one year's efficient service in the corps, and in the case of Certificate B (Captain's) two years' efficient service, and pass the practical and written examinations, which are held under the auspices of the Imperial and Dominion Governments conjointly. The written papers are set and corrected by military experts in England.

To be efficient in a given year (1st August to 1st July), a member must have attended forty parades if in his first year of service, or twentyfive parades if in a subsequent year, and must have completed his prescribed course of musketry. The time required is about two hours per week each session. Rifle practice is encouraged.

THE UNIVERSITY LIBRARY

G. R. LOMER, M.A., Ph.D., UNIVERSITY LIBRARIAN

The University Library is under the general management of a Committee of the Senate with the Librarian as Secretary.

The several libraries of the University now contain over 450,000 volumes and 45,000 pamphlets, considerable collections of maps and photographs, and a number of the rarer and more costly monographs and serials which are indispensable for purposes of research. The Library now receives over 1,350 periodicals, Government publications and transactions of various literary and scientific societies.

Among the special collections possessed by the library may be mentioned the Mendelssohn Choir Memorial Collection of works on Music, the T. D. King Collection of Shakesperiana, the Redpath Historical Collection, and the Collection of Canadiana.

The Blackader Library of Architecture has been established in honour of Captain Gordon Home Blackader, B.Arch. (McGill.) The Emma Shearer Wood Library of Ornithology was presented by Colonel Casey A. Wood, M.D., LL.D., as a special research collection and reference library. The Blacker Library of Zoology, presented by Robert Roe Blacker and Nellie Canfield Blacker, is a comprehensive reference library on this special subject. In addition to standard works, it includes a number of monographs and an extensive collection of reports of scientific voyages and periodicals. It is supplemented by the Lyman Collection of books on Entomology. The Faculties of Medicine (including the Bibliotheca Osleriana), Law and the Royal Victoria College, maintain libraries in their respective buildings; and there are Departmental Libraries in Engineering, Chemistry, Physics and Botany.

The Travelling Libraries of McGill University contain, each, from thirty to forty carefully selected volumes and are sent, on application, and on payment of a nominal fee of \$4.00, to schools, to country libraries, to reading clubs, and to small communities which possess no public library. Pictures, lantern slides and lectures are also supplied by this department. Provision has also been made to supply books by mail to graduates of the affiliated theological colleges and to ministers who have not the advantage of local libraries.

With the Library are affiliated the McGill College Book Club and the University Book Club, which supply their members with standard, important and recent publications and make a substantial annual contribution of books to the Library.

The Library maintains a museum, open to the public, with a permanent exhibition illustrating the development of the Book Arts, and numerous temporary exhibits are shown in the Gallery of the Reading Room.

ACADEMIC DRESS

Undergraduates wear a plain black stuff gown, not longer than half way between the knee and the ankle, with round sleeves cut above elbow.

Bachelor of Arts.—Black stuff gown, falling down below knee with full sleeve cut to elbow and terminating in a point (similar to that of the Cambridge B.A.); hood, black silk, lined with pale blue silk and edged with white fur.

Bachelor of Science.—The same gown as Bachelors of Arts; hood, black silk, lined with yellow silk and edged with white fur.

Bachelor of Science in Agriculture.—The same gown as Bachelors of Arts; hood, black silk, lined with dark green silk and edged with white fur.

Bachelor of Civil Law.—The same gown as Bachelors of Arts; hood, black silk, lined with French grey silk and edged with white fur.

Bachelor of Engineering.—The same gown as Bachelors of Arts; hood, black silk, lined with scarlet silk and edged with white fur.

Bachelor of Architecture.—The same gown as Bachelors of Arts; hood, black silk, lined with white silk and edged with white fur.

Bachelor of Music.—The same gown as Bachelors of Arts; hood, black silk, lined with pale mauve silk and edged with white fur.

Bachelor of Commerce.—The same gown as Bachelors of Arts; hood, black silk, lined with purple silk and edged with white fur.

Bachelor of Household Science.—The same gown as Bachelors of Arts; hood, black silk, lined with jade green silk, and edged with white fur.

Bachelor of Library Science.—The same gown as Bachelors of Arts; hood, black silk, lined with orange silk, and edged with white fur.

Master of Arts.—Black gown of stuff or silk, falling below knee, with long sleeves with semi-circular cut at the bottom (similar to that of the Cambridge M.A.); hood, black silk, lined with pale blue silk.

Master of Science.—The same gown as Masters of Arts; hood, black silk, lined with yellow silk.

Master of Commerce.—The same gown as Masters of Arts; hood, black silk, lined with purple silk.

Master of Engineering.—The same gown as Masters of Arts; hood, black silk, lined with scarlet silk.

Master of Civil Law.—The same gown as Masters of Arts; hood, black silk, lined with French grey silk.

Doctor of Medicine.—The same gown as Masters of Arts; hood, scarlet cloth, lined with dark blue silk.

Doctor of Dental Surgery.—The same gown as Masters of Arts; hood, scarlet cloth, lined with pink silk.

Doctor of Laws.—The same gown as Masters of Arts; hood, scarlet cloth, lined with white silk.

Doctor of Literature.—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale blue silk.

Doctor of Science.—The same gown as Masters of Arts; hood, scarlet cloth, lined with yellow silk.

Doctor of Civil Law.—The same gown as Masters of Arts; hood, scarlet cloth, lined with French grey silk.

Doctor of Music.—The same gown as Masters of Arts; hood, scarlet cloth, lined with mauve silk.

Doctor of Philosophy.—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale green silk.

Doctors of Laws, Doctors of Civil Law, Doctors of Literature, Doctors of Science, Doctors of Philosophy and Doctors of Music are entitled to wear for full dress a robe of scarlet cloth (similar in pattern to that of the Cambridge LL.D.), faced with silk of the same colour as the lining of their respective hoods.

All hoods are in pattern similar to that of the Masters of Arts of Cambridge University.

Undergraduates and graduates wear the ordinary black trencher with black tassel, but Doctors of Law, Doctors of Civil Law, Doctors of Literature, Doctors of Science, Doctors of Philosophy and Doctors of Music wear for full dress a black velvet hat with gold cord, similar to that worn by Doctors of Laws of Cambridge University.

Samples of the colours of the linings of all hoods are kept for inspection in the office of the Registrar.

Graduates in Great Britain may purchase these gowns and hoods from Messrs. Ede, Son & Ravencroft, 93 and 94 Chancery Lane, London, W.C. 2.

McGILL UNIVERSITY

DIRECTORY OF STUDENTS

SESSION 1934-35

NAME	FACULTY AND YE	AR ADDRESS	TEL. NO.
Where two a	ddresses are given	, the second is the home address	
Abbott, Florence M	.Com. 2	Royal Victoria College, Montreal.	MA 9177
Aber, Joseph Aber, Samuel Abramovitch, Bennie Abramowitz, David L. Abramson, Arthur S. Adair, Helen M.	.B.A. 2 B.A. 4 B.Sc. 2 B.A. 2 Med. 3 B.A. 1	181 Patterson Ave., Ottawa, Ont. 449 Grosvenor Ave., Westmount. 449 Grosvenor Ave., Westmount. 5238 Jeanne Mance St., Montreal. 507 Argyle Ave., Westmount. 5991 St. Urbain St., Montreal.	EL 8968 .EL 8968 .DO 1025 .WE 4622 .CR 8777
Adams, James R Adams, Wheeler	B.A. 1		st.EL 5609 st.EL 5609 DE 2876
Aimi, Dante	Dent. 3	. 340 St. Catherine Rd., Outremont . 340 St. Catherine Rd., Outremont . 772 Sherbrooke St. W. Montreal	CA 3492
		52 Pleasant, Barre, Vt. 1015 Sherbrooke St. W., Montreal 30 East Britannia St., Taunto Mass.	on,
		. 1441 Drummond St., Montreal	
Akin, John R.	B.A. 1	5608 Phillips Ave., Montreal. 146 Balfour Ave., Montreal. 257 De l'Epee Ave., Montreal. 767 Davaar Ave., Outremont. 947 Dunlop St., Montreal.	AT 6580
Albert, Saul	. Med. 1	525 Prince Arthur St. W., Montre	al.MA 6649
Alexander, John A	Eng. 2 Eng. 1	3871 Pandora St., Vancouver, B.C. 209 Strathearn Ave., Montreal Wes 137 Ballantyne Ave. S., Montre	st.DE 8060
Alford, E. Lloyd G	B.Sc. 2	West	MA 2806
Alford, Harold W	.Grad. Sch	235 O'Connor St., Ottawa, Ont. Albert College, Belleville, Ont	N Senning &
Allen, Della E Allen, George F. A	B.Sc. 1	. 47 Parkside Ave., Montreal West. . 2028 Victoria St. Apt. 3, Montreal. Granby, Conn.	DE 8815 LA 2639
Allen, Lorna W	B.A. 3	.585 Fortune St., Montreal. .3447 Beaconsfield Ave., Montreal. 4707 Westmount Blvd., Westmour 3506 University St., Room 434. .186 Longueil St., St. Johns, Que.	EL 1592 nt.WE 3972
Allison, John B	B.Sc. 2 B.A. 3	701B Bloomfield Ave., Outremont 1441 Drummond St., Montreal Stanstead, Que.	. DO 7859 . MA 4171
Anderson, David R. B. A Anderson, Earle H	Theol. 1	. 4065 Cote des Neiges Rd., Montrea .676 Bloomfield Ave., Outremont. .3524 Lorne Ave. Apt. 5, Montreal.	CR 0110 MA 3389
Anderson, John F	Med. 1	.545 Pine Ave. W., Montreal 610 First Nat. Bank, Houston Texas.	MA 1545 n,
Anderson, Robert E. V	B.Sc. 1 Med. 5	. 2461 Mariette Ave., Montreal 765 Hartland Ave., Outremont 3626 St. Urbain St., Montreal	AT 7837J HA 9828
		.3419 University St., Montreal	
Andrews, Clifford	B.A. 3	67 East Orvis St., Massena, N.Y. 3473 University St., Montreal 4928 St. Denis St., Montreal	. MA 4902

NAME FACULTY AND YEA	ADDRESS TEL. NO.
Where two addresses are given,	the second is the home address
Angel, John BEng. 4	. 462 Prince Arthur St. W., Montreal. MA 2663
Anglin, James P. Law 2 Angus, Alexander D. B.A. 3 Angus, Donald M. Dent. 2 Angus, Edith F. B.A. 2	682 Roslyn Ave., Westmount EL 2144 3450 Drummond St., Montreal PL 1693 63 Thornhill Ave., Westmount
Angus, John R. J B.A. 2	3637 University St., MontrealMA 1824 1617 Rockland Ave., Victoria, B.C.
Angus, Lois A	. 465 Mt. Stephen Ave., Westmount WE 1391 1227 Sherbrooke St., Montreal PL 4089 88 Turnbull Ave., Oue.
Anglin, James P Law 2. Angus, Alexander D	414 St. Catherine E., Montreal HA 0992 5154 St. Urbain St., Montreal CR 8831 451 Sherbrooke St. W., Apt. 2, Montreal HA 9491 St. George's Rectory, Haliburton,
Archibald, Frank REng. 3	Ont. 3468 Hutchison St., MontrealHA 5905
Archibald, Margaret MB.A. 1	Gardenvale, Ste. Anne de Bellevue,
Archibald, Walter S Med. 1	Oue
Archibald, Frank R Eng. 3	379 Battle St., Kamloops, B.C. 621 Prince Arthur St., Apt. 3, Montreal
Argue, John D	9927-83 Ave. Edmonton, Alta. 3434 McTavish St., MontrealPL 6773 590 Lisgar St., Ottawa, Ont.
Argue, John FMed. 3	539 Pine Ave. W., Montreal
Argue, John F. Med. 3 Ariano, Alfonso B.A. 2 Armstrong, Ann E. B.A. 3 Armstrong, John L. Eng. 3 Armstrong, Margaret F. Grad. Nurse 1 Aronovitch, Michael Med. 5 Arron, Jack B.A. 1	3506 University St., Montreal MA 2055 15 Willow Ave., Westmount EL 0636 .74 Courcelette Ave., Outremont CA 6483 .3630 Durocher St., Apt. 44, Montreal HA 1683
Aronovitch, Michael Med. 5 Arron, Jack B.A. 1	1533 Gladstone Ave., Victoria, B.C. .5330 St. Urbain St., MontrealCR 5306 .4061 St. Lawrence Blvd., Montreal.BE 2233
Asare, Theodore OLaw 1	292 Ontario St. E., MontrealLA 1981 Woraworavia Accra Gold Coast, West
Astron, Jack. B.A. 1 Asare, Theodore O. Law 1 Ashkanase, Bernice R. B.A. 3 Ashkanase, Earl M. Com. 2 Ashkenazy, Moses. Med. 1 Ashkenazy, William H. B.Sc. 1 Aspler, Charles. Arch. 2 Asplin, Albert G. Eng. 1	755 Dunlop Ave., Outremont AT 2343 755 Dunlop Ave., Outremont AT 2343 755 Dunlop Ave., Outremont AT 2343 5188 Jeanne Mance St., Montreal DO 0667 5138 Jeanne Mance St., Montreal DO 0667 4055 Esplanade Ave., Montreal PL 9895 3525 Oxenden Ave., Montreal PL 9895
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Wood Coorgo W	Mod 2	1557 St Mark St Apt 0 Montreal El 3370
Wood Mildred H	DA 9	Pavel Victoria College Montreal MA 0177
wood, Mildred H	. B.A. 3	Royal victoria College, Montreal MA 3111
		Circular Road East, St. John's New-
	D. C. O.	foundland.
Wood, Ronald M	. B.Sc. 2	1441 Drummond St., MontrealMA 4171
		Watt Town, Jamaica, B.W.I.
Woodburn, Henry F	.Com. 1	. 21 Campbell Ave., Montreal West. EL 3081
Woodhead Robert C	Eng 3	241 Ballantyne Ave. N., Montreal
		West
Woolfrey, Sidney G	. Theol. 1. Arts P.	3506 University St., Montreal MA 2055
Troumey, Educy Circums		Carmanville, Newfoundland.
Woolhouse Frederick M	Med 4	
vyoomouse, Frederick Wi		3381 University St., Montreal. MA 3642 814 Temperance St., Saskatoon, Sask. 144 Balfour Rd., Town of Mount Royal. AT 3095 19 Campbell Ave., Montreal West. EL 3488 19 Campbell Ave., Montreal West. EL 3488 223 Melville Ave., Apt. 31, West- mount.
Waster Edna E	DA 1	144 Polfour Pd Town of Mount
wootan, Euna F	. D.A. 1	Description Rd., 10wil of Mountain AT 3005
*** **	DC 1	10 Complete Montreel West El 2488
Wootton, Mary H	. B.Sc. 4	. 19 Campbell Ave., Montreal West. EL 3400
Wootton, Tom A	. B.Sc. 1	. 19 Campbell Ave., Montreal West EL 3488
Worrall, James	. B.Sc. 4	. 223 Melville Ave., Apt. 31, West-
		mount WE 2238 Agoal Victoria College, Que WE 2238 Royal Victoria College, Montreal MA 9177 Trinity College School, Port Hope,
Wrenshall, Charlton L	. Grad. Sch	. Macdonald College, Que
Wright, Carol	. B.A. 1	. 4293 Montrose Ave., Westmount WE 2238
Wright E. Elizabeth S.	B.Sc. 1	. Royal Victoria College, Montreal MA 9177
Trigite, D. Dilbuocon Dr		Trinity College School, Port Hope,
		Ont.
Weight Horland H	Fng 1	. 418 Pine Ave. W., Apt. 10, Montreal.PL 3506
TTT 1 1 4 Y	D 4 1	. 3050 Trafalgar Ave., Montreal FI 8470
Wright, Joanna	. D.A. 1	2547 University Ct Montreel I A 4955
Wright, John 1	. Med. 2	017 Fort Touler Ct. Bone Novedo
	D 1 0	D 1 X' - t - wi- C-llara Montreel MA 0177
Wright, Loys V. V	. B.A. 3	217 East Taylor St., Reno, Nevada. Royal Victoria College, Montreal. MA 9177
	The latest the same	Box 140, R.D. 7, Schenectady, N.Y. 3429 St. Famille St., Montreal PL 6807
Wu, C. Pearle	. B.A. 4	.3429 St. Famille St., Montreal PL 6807
		c/o Mrs. Pien Hsiao-Ching, Dan
		Doong Flour Mills, Shan Cha Ho,
		Hsia-huan Nanking, China,
Vama George	Eng. 1	115 Westmingter Ave Montreal
Tailla, George	. 2118. 1	West DE 7831
Vancou John M	B Sc 4	642 Grosvenor Ave., Westmount, EL 6064
Yancey, John M	Com 2	642 Grosvenor Ave Westmount EL 6064
vancey, Richard B	. Com. 2	West

^{*}Left early in session.

NAME	FACULTY AND YEA	AR ADDRES	S TEL. NO.			
Where two addresses are given, the second is the home address						
Yelin, Gabriel. Yeo, Harold E. Yolton, Cuthbert R. York, Fred G. Yossem, Victor Young, Donald A. Young, Donald M. Young, Horace C. Young, John C. G. Young, John C. Young, Vincent T. Yuile, Arthur M. Yuile, Charles L. Zarvis, Nicholas C. Zatz, Saul. Zeidel, Saul. Zimmerman, Alfred	Med. 5 Med. 3 Med. 2 Eng. 4 Com. 1 Med. 5 Grad. Sch. Eng. 4 B.Sc. 1 Med. 4 Med. 3 B.Sc. 1 Med. 5 Med. 1	4188 Girouard Ave. 1441 Drummond St. 20 School St., Cha. 3419 University St. Massena, N.Y. 1441 Drummond St. 560 Driveway, Ott. 4315 Melrose Ave., C. 4390 Earnscliffe Av. 4590 Earnscliffe Av. 456 Ellsworth Ave., C. 4390 Earnscliffe Av. 456 Ellsworth Ave. 4581 University St. 283 MacLaren St., 3610 Hutchison St. 3402 Durocher St., 3402 Durocher St., 5 Birch St., Lawre 3540 Ontario Ave., 3540 Ontario Ave., 495 Prince Arthur Montreal. 45 Francis St., Pit 5442 Esplanade Av. 679 St. Roch St., M. 5593 St. Urbain St.	, Montreal DE 0254, Montreal MA 4171 rlottetown, P.E.1., Montreal MA 3089, Montreal MA 2089, Montreal MA 2171, Montreal MA 2806, Montreal MA 2806, Montreal MA 2806, Montreal MA 2806, Montreal MA 3842, Montreal MA 3842 Ottawa, Ont, Montreal MA 3842 Ottawa, Ont, Montreal MA 5537, Montreal MA 5537, Montreal MA 5537, Montreal MA 2006, Montreal MA 5537, Montreal PL 4021, Montreal PL 4021, Montreal PL 407, Montreal PL 1677, Montreal PL 1677, Montreal AT 2857, Montreal AT 2857			
Zimmerman, George	W. January 1900 081	mont	t., Apt. I. Outre-			
Zion, Amed B.,	Hong Cong, China.					
estmount. WE 5932 i.g. Montreal. FI 3370 se. Montreal. MA 9177 St. John's New-						
t. 10, Mourreal PL 3500						

REGISTRATION

FACULTY OF ENGINEERING (Co 25-4801

Degree	Students				

FACULTY OF ARTS AND SCIENCE:				
Arts Division:	Men	Women	Total	
First Year		108	185	
Second Year		95	193	
Third Year		99	175	
Fourth Year	7 57 Table 57	85	142	
		17	1	
Totals	308	101387/	695	
Cancellations 6				
Science Division:			d Year Year	
First Year	146	16	162	
Second Year	56		65 50	
Third Year	42			
Fourth Year.	32	orthe I	43	
Totals	276	ations	320	
Cancellations				
Commerce Division:				
First Year	47	3	50	
Second Year	52	4	56	
Third Year	39		43	
Fourth Year	41 aculty	or the F	etals o	
Totals	179	19	198	
Cancellations 3				
Totals for the Faculty	763	450	1,213	1,213
FACULTY OF ENGINEERING:				First
Engineering Division:				
First Year	89		89	
Decorre - Decorre	87	for the F		
Third Year	83	ations	83	
Fourth Year	85	4	85	
DIES AND RESEARCH 196 54 SETOT 250	344	GRADUA	344	
Cancellations 8	011	ations	ancell	
Cancellations				

Degree Students (Continued)

FACULTY OF ENGINEERING (Continued):

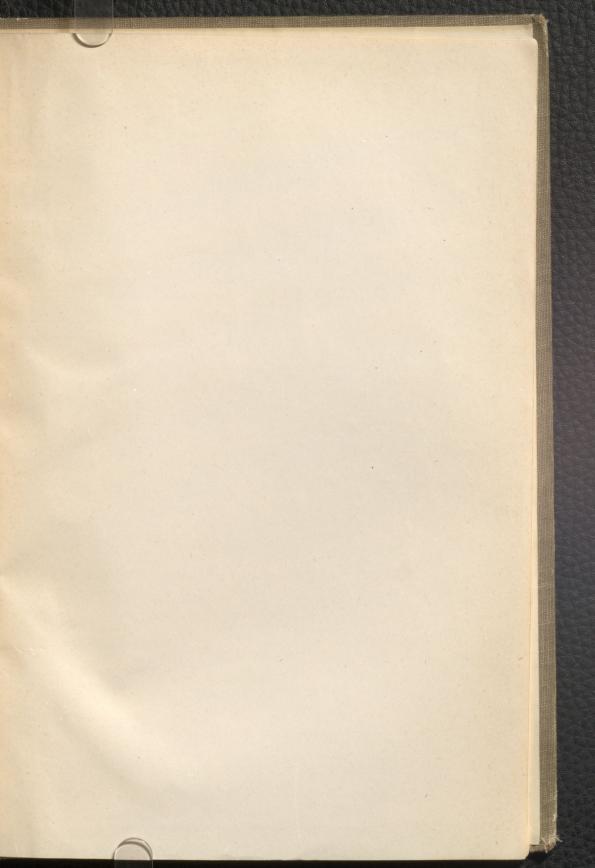
School of Architecture:	Men	Women	Total	
First Year	8		8	
Second Year	9		9	
Third Year	11		11	
Fourth Year	10		-10	
Fifth Year	5		5	
Totals	43		43	
Cancellations	387		387	387
FACULTY OF MEDICINE:				
First Year	108	4	112	
Second Year	85		85	
Third Year	98	- SHOEN	98	
Fourth Year	102	6	108	
Fifth Year	104	1	105	
			31/3/	
Totals for the Faculty	497	11	508	508
Cancellations				
FACULTY OF DENTISTRY:				
First Year	15		15	
Second Year	16		16	
Third Year	14		14	
Fourth Year	8		8	
Totals for the Faculty	53		53	53
Cancellations1				
FACULTY OF LAW				
	29	1	30	
First Year	7.00	2	28	
Second Year	26 29	1	30	
Third Year	29	1	- 50	
Totals for the Faculty	84	4	88	88
Cancellations1				
FACULTY OF GRADUATE STUDIES AND RESEARCH Cancellations	196	54	250	250

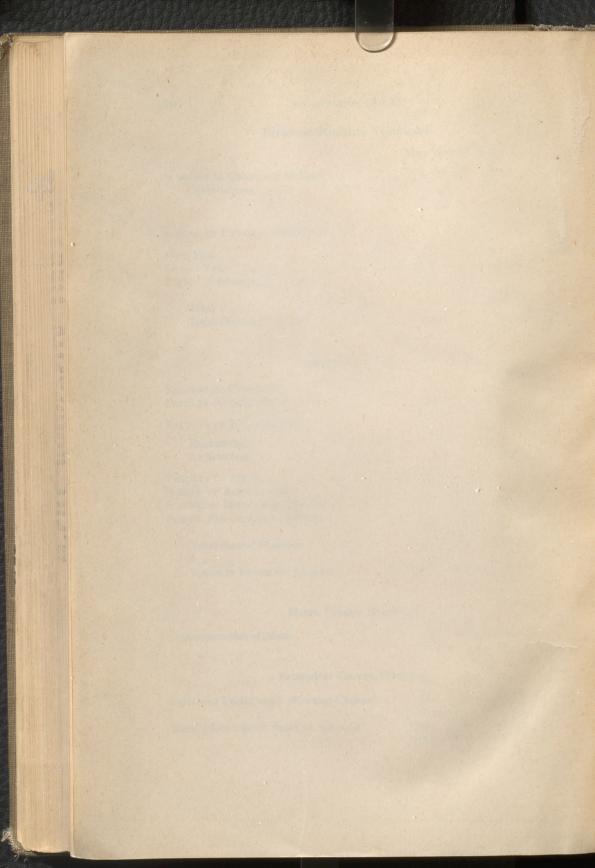
Degree Students (Continued)

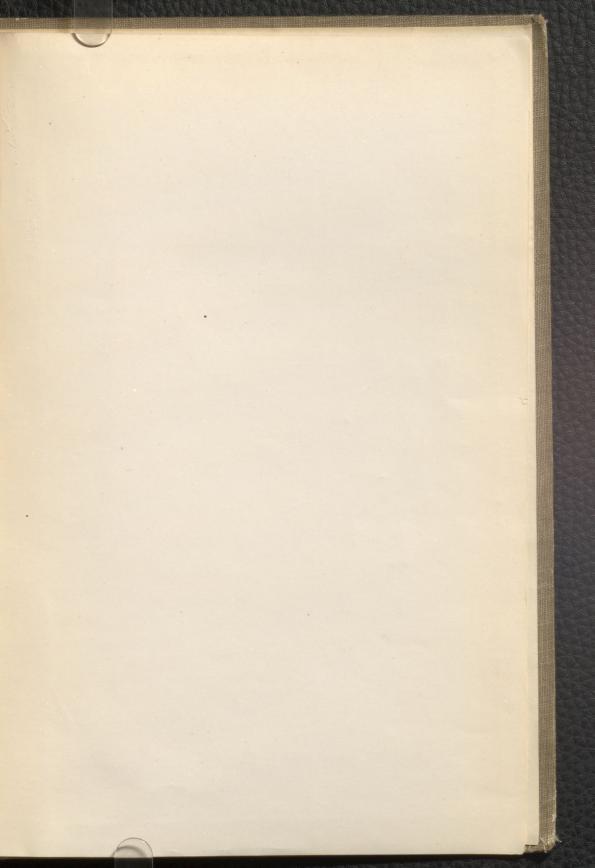
FACULTY OF AGRICULTURE:	Men	Women	Tota	1		
First Year	14	2	16			
Second Year	16		16			
Third Year	19	1	20			
Fourth Year	17	2	19			
Totals for the Faculty	66	5	71	71		
SCHOOL OF HOUSEHOLD SCIENCE:						
First Year		25	25			
Second Year		26	26			
Third Year		17	17			
Fourth Year	outilei	16	16			
Totals for the School		84	84	84		
LIBRARY SCHOOL	3	14	17	17		
Cancellations2		al result	200	anni T		
Cancenations						
FACULTY OF MUSIC	3	1	4	4		
Total Degree Students	2,052	623	2,675	2,675		
Diploma Students						
Diploma Students			Septiment .			
FACULTY OF MEDICINE:	1	ored presstr	. 1			
FACULTY OF MEDICINE: Diploma of Public Health	1	ores to	1			
FACULTY OF MEDICINE: Diploma of Public Health FACULTY OF AGRICULTURE:						
FACULTY OF MEDICINE: Diploma of Public Health FACULTY OF AGRICULTURE: Diploma Course—First Year	31	A-IOLA Mare on	31			
FACULTY OF MEDICINE: Diploma of Public Health FACULTY OF AGRICULTURE:						
FACULTY OF MEDICINE: Diploma of Public Health FACULTY OF AGRICULTURE: Diploma Course—First Year Second Year	31	A-IOLA Mare on	31			
FACULTY OF MEDICINE: Diploma of Public Health FACULTY OF AGRICULTURE: Diploma Course—First Year	31 15	··· 1	31 16			
FACULTY OF MEDICINE: Diploma of Public Health FACULTY OF AGRICULTURE: Diploma Course—First Year Second Year	31 15	··· 1	31 16			
FACULTY OF MEDICINE: Diploma of Public Health FACULTY OF AGRICULTURE: Diploma Course—First Year Second Year Total FACULTY OF MUSIC:	31 15 43	1 1	31 16 47			
FACULTY OF MEDICINE: Diploma of Public Health FACULTY OF AGRICULTURE: Diploma Course—First Year Second Year Total FACULTY OF MUSIC: Licentiate Course SCHOOL OF HOUSEHOLD SCIENCE:	31 15 43	1 1	31 16 47			
FACULTY OF MEDICINE: Diploma of Public Health FACULTY OF AGRICULTURE: Diploma Course—First Year Second Year Total FACULTY OF MUSIC: Licentiate Course SCHOOL OF HOUSEHOLD SCIENCE: Institution Administration:	31 15 43	1 1	31 16 47 17			
FACULTY OF MEDICINE: Diploma of Public Health FACULTY OF AGRICULTURE: Diploma Course—First Year Second Year Total FACULTY OF MUSIC: Licentiate Course SCHOOL OF HOUSEHOLD SCIENCE:	31 15 46	1 16	31 16 47			
FACULTY OF MEDICINE: Diploma of Public Health FACULTY OF AGRICULTURE: Diploma Course—First Year Second Year Total FACULTY OF MUSIC: Licentiate Course SCHOOL OF HOUSEHOLD SCIENCE: Institution Administration: First Year Second Year	31 15 43 1	1 1 16	31 16 47 17			
FACULTY OF MEDICINE: Diploma of Public Health FACULTY OF AGRICULTURE: Diploma Course—First Year Second Year Total FACULTY OF MUSIC: Licentiate Course SCHOOL OF HOUSEHOLD SCIENCE: Institution Administration: First Year Second Year Total	31 15 43 1	16 4 1 5	$ \begin{array}{r} 31 \\ 16 \\ \hline 47 \\ \hline 17 \\ \hline 4 \\ 1 \\ \hline 5 \\ \end{array} $			
FACULTY OF MEDICINE: Diploma of Public Health. FACULTY OF AGRICULTURE: Diploma Course—First Year. Second Year Total. FACULTY OF MUSIC: Licentiate Course. SCHOOL OF HOUSEHOLD SCIENCE: Institution Administration: First Year Second Year. Total. Homemaker Course (One Year).	31 15 43 1	1 1 16	31 16 47 17			
FACULTY OF MEDICINE: Diploma of Public Health FACULTY OF AGRICULTURE: Diploma Course—First Year Second Year Total FACULTY OF MUSIC: Licentiate Course SCHOOL OF HOUSEHOLD SCIENCE: Institution Administration: First Year Second Year Total	31 15 43 1	16 4 1 5	$ \begin{array}{r} 31 \\ 16 \\ \hline 47 \\ \hline 17 \\ \hline 4 \\ 1 \\ \hline 5 \\ \end{array} $			

Diploma Students (Continued)

Diploma Statement (Statement	Men V	Vomen	Total	
School for Graduate Nurses		27	27	
Cancellations 1				
School of Physical Education:				
First YearSecond Year	1	5 2	6 2	
Higher Diploma	1	2	3	
Total	2	9	11	
Total Diploma Students	50	81	131	131
Partial Students				
FACULTY OF DENTISTRY	1		1	
FACULTY OF ARTS AND SCIENCE	53	61	114	
FACULTY OF ENGINEERING:	a had a		3	
Engineering	3 1		1	
FACULTY OF MUSIC	10	45	55 12	
School of Agriculture	12	4	4	
School for Graduate Nurses		19	19	
Total Partial Students	80	129	209	209
Totals in University Courses	2,182	833	3,015	3,015
Short Course Stude	nts			
Conservatorium of Music	17	47	64	
Extension Course Stud	dents			
Extension Department (Evening Classes)	782	389	1,171	1,171
TOTALS EXCLUDING SUMMER SCHOOLS	2,981	1,269	4,250	







DATE DUE

DUE	RETURNED
AUG 28 1964	AUG 17 1964
THE ML MAR 24	MAR 2 1 1972
C The second	c MAR 2
ILL ML	JUL 30 1881
40.00	1 1981
W APR 5 1883	MAR 2 3 1983
FORM 211A: L.J.D.	

