

may be endorsed in the following subject/s:

Biosecurity
Ecology
Environmental Science

Note: The course and programme requirements are given in the Schedule of Endorsements for the Award elsewhere in the degree regulations.

4.1.1.1.1

Candidates who wish to enrol for a course of study whose total points exceed 150 points for a full year or 75 points for a single semester must first obtain the approval of the Dean of Science.

numbers from 201 to 299 without having passed the appropriate prerequisite to that course provided that:

- (a) if the candidate is credited with the course he or she shall not thereafter be credited with any prerequisite in the subject of which that course forms a part, and
- (b) if the candidate fails the course but in the opinion of the examiners attains the standard of a pass in a course at 100 or 200-level he or she shall be credited with a pass in such course or courses as the Dean of Science may decide.

3.1.1.1.1

- (a) Subject Majors: the degree of Bachelor of Science may be awarded in the following subjects:
Astronomy; Biochemistry; Biological Sciences;
Chemistry; Computer Science; Economics;
Electronics; Finance; Geography; Geology;
Linguistics; Management Science; Mathematics;
Philosophy; Physics; Psychology; Statistics
- (b) In addition to meeting the requirements of a subject major, the degree of Bachelor of Science

6.1.1.1.1
A candidate who discontinues with a BE or BE(Hons)

7. Concurrent enrolment in the Degree of Bachelor of Engineering (Honours) and the Degree of Bachelor of Science

A candidate who takes concurrently the course for the Degree of Bachelor of Science and Bachelor of Engineering (Honours) shall, in order to qualify for the award of both degrees, be enrolled for a course of study approved under the provisions of General Course and Examination Regulation A3, and shall:

- (a) pass all the subjects laid down in the current Regulations for the Degree of Bachelor of Engineering (Honours);
- (b) obtain 172 points above 100-level by passing courses selected from the Schedule to the Regulations for the Bachelor of Science which have not been credited to the Degree of Bachelor of Engineering (Honours), or used to obtain exemption from a course in that degree. Of these points, 84 must be from 300-level courses and include at least 56 points from a single subject or as required by the subject major;
- (c) if admitted into the Bachelor of Engineering (Honours) under BE(Hons) Regulation 4 Direct entry to the First Professional Year, complete the 172 points in (b) above. A student may be required to complete 100-level prerequisite courses from the Science Schedule, if their New Zealand Entrance qualification was not in appropriate subjects;
- (d) have met the requirements of a BE(Hons) to be eligible to graduate BSc under this cross credit regulation.

7. Concurrent enrolment in the Degree of Bachelor of Engineering (Honours) and the Degree of Bachelor of Science

A candidate who has qualified for the Degree of Bachelor of Engineering (Honours) and who is proceeding to the Degree of Bachelor of Science shall be enrolled for an approved course of study and shall satisfy the requirements of Regulation 7 hereof.

8. Prerequisite courses for the Degree of Bachelor of Science

Candidates for the Degree of Bachelor of Science under Regulations 5, 6 or 7 shall require permission of the Head of the Department of Mathematics and Statistics for enrolment in any Mathematics or Statistics course.

Note: Some Mathematics and Statistics courses duplicate significantly material in Engineering Mathematics, and will be restricted. Other courses may have prerequisites partially or fully satisfied by credits in Engineering Mathematics.

10. Concurrent enrolment in the Degree of Bachelor of Science and the Degree of Bachelor of Forestry Science

- (a) A candidate for the Degree of Bachelor of Science who is or has been enrolled for the Degree of Bachelor of Forestry Science shall, in order to qualify for the award of both degrees, meet all requirements as laid down in the Regulations of the Degree of Bachelor of Forestry Science and obtain 172 points above 100-level in courses selected from the Schedule to the Regulations for the Degree of Bachelor of Science which have not been credited to the Degree of Bachelor of Forestry Science or used to obtain exemption from a course in that degree.

Of these points, 84 points must be from 300-level courses and include at least 56 points from a single subject or as required by the subject major.

- (b) With the approval of the Dean of Engineering and Forestry a candidate may substitute an additional 200-level course equivalent to 22 points or a 300-level course equivalent to 28 points from the Bachelor of Science schedule for any FORE 400 elective.
- (c) A candidate shall have met the requirements of a BForSc to be eligible to graduate BSc under this cross credit regulation.

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12. Notwithstanding anything contained in these Regulations, a candidate who in the opinion of the Academic Board has qualified with outstanding merit for the New Zealand Certificate in Science or New Zealand Certificate in Engineering may be credited under Regulation 2(b) with 100-level courses

or unspecified credit at the 100-level. Credit under this regulation shall not exceed 108 points.

13. A candidate who has completed a Polytechnic Nursing course may be credited with up to 72 points at 100-level under Regulation 2(c).

Schedule to the Regulations for the Degree of Bachelor of Science

Note: *SU2* indicates a November 2009 course start date. See *Course Catalogue* section for a full list of semester indicators and course start dates.

Accounting and Information Systems

Course Code	Course Title	Credits	Level	Prerequisites
ACIS 311	Financial Accounting Theory and Application	14	S1	P: SCIS101 ApplAs4 w

ASTR 212	The Solar System and Dynamical Astronomy	11	S2	P: 15 points of MATH 100-level, STAT 100-level, PHYS 100-106, PHYS 111-116 or ASTR 112. These prerequisites may be replaced by a high level of achievement in NCEA Level 3 Physics and Mathematics with Calculus or other background as approved by the Head of Department.
ASTR 322	Theoretical and Observational Cosmology	15	S1	P: (1) 33 points from PHYS 221-224, PHYS 310; (2) MATH 103 or MATH 109 or equivalent R: PHYS 322
ASTR 323	Stellar Structure and Evolution	15	NO	P: (1) 22 points from PHYS 221-PHYS 224, ASTR 211, ASTR 212; (2) MATH 103 or MATH 109 or equivalent. R: PHYS 323 EQ: PHYS 323
ASTR 324	Special Topic	15	S2	P: (1) 22 points from PHYS 221-PHYS 224, ASTR 211, ASTR 212; (2) MATH 103 or MATH 109 or equivalent
ASTR 325	The Structure and Evolution of Galaxies	15	S2	P: 22 points from PHYS 221-224, ASTR 211, ASTR 212; MATH 102 or equivalent. R: PHYS 325, ASTR 425 RP: ASTR 112, ASTR 211 or ASTR 212, 33 points from PHYS 221-224 EQ: PHYS 325
ASTR 381	Advanced Experiments in Physics and Astronomy	14 (2009) 15 (2010)	SU2 S1 S2	P (2009): (1) PHYS 281 and PHYS 282 or PHYS 283; (2) 22 points from any of the following courses PHYS 221-226, ASTR 211, ASTR 212; (3) MATH 109 or equivalent. P (2010): (1) (PHYS 281 and PHYS 282); (2) 22 points from any of the following courses PHYS 221-226; (3) MATH 103 or MATH 109 or equivalent R: PHYS 381 EQ: PHYS 381
ASTR 391	Introductory Astronomy Research	14 (2009) 15 (2010)	SU2 S1 S2	P (2009): (1) MATH 109 or equivalent; (2) 44 points from any 200-level astronomy and physics courses; (3) Entry subject to a supervisor approved by the Head of Department, being available. P (2010): (1) MATH 103 or MATH 109 or equivalent (2) 44 points from PHYS 200 or ASTR 200 (3) Entry subject to a supervisor approved by the Head of Department, being available R: ASTR 392, ASTR 393

BCHM 206	Organic Chemistry	12	S2	P: BCHM 205 or CHEM 232 or ENCH 241 R: CHEM 222, CHEM 242, CHEM 262, CHEM 272 EQ: CHEM 242
BCHM 207	Special Topic	11	W S1	P: Entry subject to approval of the Coordinator, Biochemistry
BCHM 281	Synthetic, Chemical and Biochemical Techniques	11	S2	P: CHEM 112 or CHEM 115 R: CHEM 281 EQ: CHEM 281
BCHM 301	Biochemistry 3	30	W	P: (1) BCHM 201; (2) BCHM 202 or BIOL 230 or BIOL 231. R: BIOL 331 EQ: BIOL 331
BCHM 302	Biological Chemistry	30	W	P: Either (1) 22 points from BCHM 205, BCHM 206, CHEM 222, CHEM 232, CHEM 242, CHEM 262, CHEM 272, ENCH 241; or (2) BCHM 201 and either BCHM 205 or CHEM 232 or ENCH 241. R: CHEM 325, ENCH 445 EQ: CHEM 325
BCHM 303	Special Topic	15	W	P: Entry subject to approval of the Coordinator, Biochemistry.
BCHM 304	Special Topic	15	W	P: Entry subject to approval of the Coordinator, Biochemistry
BCHM 381	Biochemical Techniques	15	S2	P: BCHM 201 (if taken prior to 2005) or BCHM 281 or CHEM 281

Biological Sciences

To major in Biological Sciences, you must complete

BIOL 231	Foundations in Molecular Biology	15	S1	P: BIOL 111 and one of either BIOL 112, BIOL 113, CHEM 112, or CHEM 114 R: BCHM 202, ENCH 480, BIOL 230 EQ: BCHM 202, ENCH 480
BIOL 250	Principles of Animal Physiology	15	S1	P: BIOL 111
BIOL 251	Exercise and Health	15	S2	P: BIOL 111 or BIOL 116. Students with other appropriate preparation may be admitted to this course with the approval of the Head of the School of Biological Sciences.
BIOL 253	Cell Biology I	15	S2	P: BIOL 111 and CHEM 114; RP: CHEM 115 (or CHEM 111 and CHEM 112)
BIOL 254	Plant Developmental Biology	15	S2	P: BIOL 111 R: BIOL 252 RP: CHEM 114
BIOL 255	Plant Ecophysiology	15	S2	P: BIOL 111 R: BIOL 252 RP: CHEM 114
BIOL 270	Ecology	30	S1	P: BIOL 112 and BIOL 113 R: FORE 202
BIOL 271	Evolution	15	S1	P: BIOL 112
BIOL 272	Principles of Animal Behaviour	15	S2	P: BIOL 112 or PSYC 105
BIOL 273	New Zealand Biodiversity and Biosecurity	15	S2	P: 30 points at 100 level R: BIOL 114
BIOL 303	Forensic Genetics	15	SU1	P: Entry subject to approval from Head of the School of Biological Sciences
BIOL 304	Special Topic	15	NO	P: Entry subject to approval by the Head of School.
BIOL 305	Practical Taxonomy for Field Biologists	15	SU1	P: BIOL 215 or subject to approval by the Head of the School of Biological Sciences
BIOL 306	Special Topic	15	W	P: Entry subject to approval by the Head of School.
BIOL 307	Special Topic	15	S2	P: Entry subject to approval by the Head of School.
BIOL 308	Special Topic	30	S2	P: Entry subject to approval by the Head of School.
BIOL 309	Experimental Design and Data Analysis for Biologists	15	S2	P: BIOL 209 or other statistical background as determined by the Head of School.
BIOL 313	Advanced Microbiology	30	S2	P: BIOL 213 and BIOL 231 or BCHM 202. For students enrolled before 2010, BIOL 213
BIOL 330	Advanced Concepts in Genetics	30	S1	P: BIOL 213 and BIOL 231 and BIOL 271. For students enrolled before 2010, BIOL 231 and BIOL 232 and BIOL 271
BIOL 331	Biochemistry 3	28	W	P: (1) BCHM 201; (2) BCHM 202 or BIOL 230 or BIOL 231 R: PAMS 308, BCHM 301 EQ: BCHM 301
BIOL 332	Genetics and Evolution of Invasive Species	15	S2	P: BIOL 271
BIOL 351	Cell Biology 2	30	S2	P: BIOL 253. Students enrolled before 2010, either (1) BIOL 231 and 232; or (2) BIOL 230 or BIOL 250 or BIOL 252 or BCHM 201
BIOL 352	Plant Development and Biotechnology	30	S1	P: BIOL 252 or BIOL 254
BIOL 353	Comparative Physiology of Exercise	15	S1	P: BIOL 250 or BIOL 251
BIOL 354	Animal Ecophysiology	15	S2	P: BIOL 250
BIOL 371	Evolutionary Ecology	15	S1	P: BIOL 271

BIOL 373	Behavioural Ecology	30	S1	P: (1) Either BIOL 271 or BIOL 272; (2) BIOL 209 or equivalent preparation in statistics.
BIOL 374	Marine Ecosystems	30	S2	P: BIOL 270 and BIOL 209 RP: BIOL 212
BIOL 375	Freshwater Ecosystems	30	S2	P: BIOL 270 and BIOL 209
BIOL 377	Global Change and Biosecurity	30	S1	P: (1) BIOL 270 or FORE 202; (2) BIOL 209 or FORE 222/ FORE 224
BIOL 378	Population Ecology and Conservation	15	S1	P: (1) BIOL 270 or FORE 202; (2) BIOL 209 or FORE 222/ FORE 224
BIOL 379	Sustaining Native Biodiversity in Primary Production Systems	15	S2	P: (1) BIOL 270 or FORE 202; (2) BIOL 209 or FORE 222/ FORE 224 R: BIOL 376, FORE 430, FORE 444

Biosecurity

BIOS 101	Issues in New Zealand Biosecurity	18	SU2	R: BIOS 201, INCO 122, INCO 222
BIOS 201	Issues in New Zealand Biosecurity	22	SU2 S2	P: 36 points at 100 level approved by the course co-ordinator. R: BIOS 101, INCO 122, INCO 222

Chemistry

COSC 324	Advanced Software Engineering	15	SI	

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COSC 363	Computer Graphics	15	S2	P: (1) 43 3 points	Computer Graphics
					ECON 105 Introduction to M ECON 201 Macroeconomics

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GEOG 322	Geography of Health	30	S1	P: 30 points of 200-level Geography, or in special cases with approval of the Head of Department.
GEOG 323	Geospatial Analysis in the Social and Environmental Sciences	15	S2	P: 30 points of 200-level Geography, including GEOG 205, or in special cases with approval of the Head of Department. R: GEOG 431
GEOG 324	Advanced GIS	15	S1	P: 30 points of 200-level Geography, including GEOG 205, or in special cases with approval of the Head of Department.
GEOG 340	Field Based Geomorphic Applications	15	SU1	P: 30 points of 200 level Geography, including GEOG 201, or in special cases with approval of the Head of Department.
GEOG 341	Burma (Myanmar): Geographies of Anti-Development	15	SU1	P: 30 points of 200-level Geography, including GEOG 202, or in special cases with approval of the Head of Department.
GEOG 343	Independent Course of Study	15	NO	P: Subject to approval of the Head of Department.

Geology

All courses in the Department of Geological Sciences require laboratory and/or field work and include both practical and written examinations, with the exception of the Field Studies papers, which are assessed only on practical assignments. Students intending to major in Geology should complete both GEOL 111 and GEOL 112 as the core introductory papers. Passes in both GEOL 240 and GEOL 241, plus 45 points from other GEOL 200-level, are prerequisites for the advanced field papers GEOL 351 and GEOL 352.

Note that GEOL 351 and GEOL 352 are required for entry into postgraduate courses. Students intending to proceed to BSc(Hons) in Geology or Engineering Geology, PGDipSc in Geology, PGDipEngGeol, or MSc in Geology or Engineering Geology, must also have a minimum of an additional 56 points in Geology at 300 level and 84 are recommended. At least 15 points of MATH 100-level, or a demonstrably equivalent standard in Mathematics, are a prerequisite for entry to ENGE 400-level.

Course Code	Course Title	Credits	Level	Prerequisites
GEOL 111	Planet Earth: An Introduction to Geology	15	S1	R: ENCI 271
GEOL 112	Understanding Earth History	15	S2	R: ENCI 271 RP: GEOL 111
GEOL 113	Environmental Geohazards	15	S2	
GEOL 237	Special Topic	11	S1	P: Entry subject to HOD approval.
GEOL 240	Field Studies A - Mapping	15	S1	P: GEOL 111 and GEOL 112, or, with a B+ average, or a standard acceptable to the HOD, GEOL 113 may be substituted for GEOL 111 or 112. C: 15 points from any of GEOL 242-245 offered in the same semester R: GEOL 230
GEOL 241	Field Studies B - Field Techniques	15	S2	P: GEOL 111 and GEOL 112, or, with a B+ average, or a standard acceptable to the HOD, GEOL 113 may be substituted for GEOL 111 or 112. C: 15 points from any of GEOL 242-245 offered in the same semester R: GEOL 231
GEOL 242	Rocks, Minerals and Ores	15	S1	P: GEOL 111 and GEOL 112. With a B+ average, or a standard acceptable to the HOD, GEOL 113 may be substituted for GEOL 112. R: GEOL 232, GEOL 238

GEOL 243	Depositional Environments and Stratigraphy	15	S1	P: GEOL 111 and GEOL 112. With a B+ average, or a standard acceptable to the HOD, GEOL 113 may be substituted for GEOL 112. R: GEOL 234, GEOL 235
GEOL 244	Structural Geology and Global Geophysics	15	S2	P: GEOL 111 and GEOL 112, or, with a B+ average, or a standard acceptable to the HOD, GEOL 113 may be substituted for GEOL 111 or GEOL 112. R: GEOL 233, GEOL 236
GEOL 245	Earth System Science	15	S2	P: GEOL 111 and GEOL 112, or, with a B+ average, or a standard acceptable to the HOD, GEOL 113 may be substituted for GEOL 111 or 112. In addition 15 points from GEOG, BIOL, CHEM or MATH 100 courses. R: GEOL 234 RP: 100-level MATH course is strongly recommended.
GEOL 251	Special Topic: Structure and Geochronology	15	S2	P: (1) GEOL 111 and GEOL 112. With a B+ average, or a standard acceptable to the HOD, GEOL 113 may be substituted for GEOL 111 or GEOL 112. (2) Entry is subject to approval by the Hed of Department Geological Sciences. R: GEOL 244, GEOL 245, GEOL 233, GEOL 234
GEOL 252	Special Topic: Earth Materials	11	S1	P: (1) GEOL 111 and GEOL 112. With a B+ average, or a standard acceptable to the HOD, GEOL 113 may be substituted for GEOL 112. (2) Entry is subject to approval by the Head of Department, Geological Science. R: GEOL 242, GEOL 232
GEOL 253	Special Topic: Palaeontology and Stratigraphy	11	S1	P: (1) GEOL 111 and GEOL 112. With a B+ average, or a standard acceptable to the HOD, GEOL 113 may be substituted for GEOL 111 or GEOL 112. (2) Entry is subject to approval of the Head of Department, Geological Sciences. R: GEOL 243, GEOL 234
GEOL 254	Special Topic: Palaeontology and Stratigraphy	11	S2	P: (1) GEOL 111 and GEOL 112. With a B+ average, or a standard acceptable to the HOD, GEOL 113 may be substituted for GEOL 111 or GEOL 112. (2) Entry is subject to approval by the Head of Department, Geological Sciences. R: GEOL 244, GEOL 233
GEOL 255	Special Topic: Biogeochemistry	11	S2	P: (1) GEOL 111 and GEOL 112. With a B+ average, or a standard acceptable to the HOD, GEOL 113 may be substituted for GEOL 111 or GEOL 112. (2) Entry is subject to approval by the Head of Department, Geological Sciences. R: GEOL 245, GEOL 251
GEOL 256	Special Topic	11	S2	P: (1) GEOL 111 and GEOL 112. With a B+ average, or a standard acceptable to the HOD, GEOL 113 may be substituted for GEOL 111 or GEOL 112. (2) Entry is subject to approval by the Head of Department, Geological Sciences.
GEOL 331	Principles of Basin Analysis	14	S1	P: GEOL 235 plus 11 additional points from GEOL 232-GEOL 238. RP: GEOL 234 and GEOL 236
GEOL 333	Evolution of the Biosphere	14	S2	P: GEOL 112 and GEOL 234 or GEOL 243 plus one additional course from GEOL 232-GEOL 238 or GEOL 243-GEOL 245. With the permission of the HOD, up to two 200-level BIOL papers may be substituted for 200-level GEOL. RP: GEOL 235.

GEOL 334	Tectonics and the New Zealand continent	14	S2	P: GEOL 236 plus 11 additional points from GEOL 232-GEOL 235. RP: GEOL 233
GEOL 336	Magmatic Systems and Volcanology	14	S2	P: GEOL 232 or GEOL 242 plus one additional course from GEOL 233 GEOL 238 or GEOL 243-GEOL 245.
GEOL 337	Economic Geology and Geophysical Exploration	14	S1	P: Two courses from GEOL 232-GEOL 238 or GEOL 242-GEOL 245.
GEOL 338	Engineering and Mining Geology	14	S2	P: GEOL 233 or GEOL 244 plus one additional course from GEOL 232-GEOL 238 or GEOL 243-245.
GEOL 339	Special Topic	14	S1	P: 22 points from GEOL 232-GEOL 236.
GEOL 340	Special Topic	14	S2	P: 22 point from GEOL 232-GEOL 236.
GEOL 342	Special Topic	14	S1	P: Entry subject to Head of Department approval.
GEOL 343	Special Topic	14	SU2 S2	P: Entry subject to Head of Department approval.
GEOL 344	Special Topic: Field-focussed Research in Geology	14	S1	P: Entry subject to Head of Department approval. C: Three courses from GEOL 242-245 and GEOL 331-GEOL 342 taken in the same semester. R: GEOL 230, 231, 351 and 352
GEOL 351	Advanced Field Studies	14	S1	P: (1) GEOL 230 or GEOL 240 (2) GEOL 231 or GEOL 241 (3) 44-45 points from other GEOL 200-level courses. C: 14 points from any papers in GEOL 331-GEOL 338 offered in the same semester.
GEOL 352	Advanced Geological Mapping	14	X	P: (1) GEOL 230 or GEOL 240; (2) GEOL 231 or GEOL 241; (3) 44-45 points from other GEOL 200-level courses. C: 14 points from any papers in GEOL 331-GEOL 338 offered in the same semester. R: GEOL 329, GEOL 330

Health Sciences

Code	Name	Credits	Level	Prerequisites
HLTH 101	Introduction to Health Studies	18	S2	

History and Philosophy of Science

Code	Name	Credits	Level	Prerequisites
HAPS 110	Science: Good, Bad, and Bogus	15	S1	R: PHIL 110 EQ: PHIL 110
HAPS 210	History of Science	15	NO	P: 15 points in HAPS, HIST or PHIL, or 30 points in any subject/s R: PHIL 237, PHIL 257, HAPS 101, HAPS 201, HAPS 202, HAPS 302.
HAPS 310	Philosophy of Science	15	NO	P: HAPS 210 or 30 points above 100 level in PHIL or 135 points in any subject/s and the approval of a HAPS coordinator. R: PHIL 237, PHIL 257, HAPS 101, HAPS 201, HAPS 202, HAPS 302.

Linguistics

Students intending to complete the BSc in Linguistics must be credited with at least 135 points in Linguistics, including LING 101, LING 102, LING 206, LING 207 and 60 points at 300-level, which must include at least one of LING 306 or LING 307, and at least 15 points in a language other than English. The required 15 points in a language other than English may be replaced by proficiency in a language other than English at the discretion of the Programme Director

Course Code	Course Name	Units	Level	Prerequisites
LING 101	The English Language	15	S1	R: ENGL 123, ENGL 112, LING 111
LING 102	Language and Society	15	S2	R: ENGL 323
LING 202	Semantics	22	S2	P: ENGL 123 or ENGL 112, or 18 points in PHIL, or 18 points in LING. R: PHIL 251 EQ: PHIL 251
LING 203	Sociolinguistics	22	NO	P: ENGL 123 or ENGL 112 or LING 101 or LING 111 or subject to HOD approval.
LING 205	Language Acquisition	22	S2	P: LING 101 or LING 111 or ENGL 112 or ENGL 123 or PSYC 104, or PSYC 105 and PSYC 106, or EDUC 121, EDUC 152, EDED 241 or EDED 268.
LING 206	Syntactic Theory	22	S1	P: LING 101 or LING 111 or ENGL 123 or ENGL 112 R: LING 201, LING 211
LING 207	Phonetics and Phonology	22	S1	P: LING 101 or LING 111 or ENGL 123 or ENGL 112 R: LING 201, LING 211
LING 302	Morphology	28	NO	P: LING 201 or LING 211 or LING 206 or LING 207
LING 303	New Zealand English	28	NO	P: LING 201 or LING 211 or LING 203 or LING 207
LING 304	Historical Linguistics	28	S1	P: LING 201 or LING 211 or LING 206 or LING 207
LING 305	Independent Course of Study	28	S1	P: By permission of the programme coordinator R: LING 306
LING 306	Topics in Syntactic Theory	28	S2	P: LING 201 or LING 206 or LING 211 R: LING 301, LING 311
LING 307	Topics in Phonetics and Phonology	28	S2	P: LING 201 or LING 207 or LING 211 R: LING 301, LING 311
LING 308	Word Meaning	28	NO	P: LING 201 or LING 211 or LING 206, or equivalent background in syntactic phrase structure, at the discretion of the Head of Department.

Management Science

For courses in Management Science a pass in any prerequisite may be replaced by a level of attainment in the prerequisite, or its equivalent, acceptable to the Head of the Department of Management.

Course Code	Course Name	Units	Level	Prerequisites
MSCI 101	Management Science	15	S2	R: MSCI 102, MSCI 112
MSCI 110	Quantitative Methods for Business	15	S1 S2	R: STAT 111, STAT 112, STAT 101
MSCI 204	Planning Methods for Management	22	S1	P: 15 points of MATH, MSCI or STAT R: MSCI 215
MSCI 216	Linear Programming Methods	11	S2	P: (1) MSCI 204 or MSCI 215; (2) MATH 104 or MATH 105 or MATH 106 or MATH 107 or MATH 108 or MATH 109 or MATH 113 or MATH 114 or MATH 115 or MATH 116 or MATH 117 or MATH 118 or MATH 119 or MATH 120 or MATH 121 or MATH 122 or MATH 123 or MATH 124 or MATH 125 or MATH 126 or MATH 127 or MATH 128 or MATH 129 or MATH 130 or MATH 131 or MATH 132 or MATH 133 or MATH 134 or MATH 135 or MATH 136 or MATH 137 or MATH 138 or MATH 139 or MATH 140 or MATH 141 or MATH 142 or MATH 143 or MATH 144 or MATH 145 or MATH 146 or MATH 147 or MATH 148 or MATH 149 or MATH 150 or MATH 151 or MATH 152 or MATH 153 or MATH 154 or MATH 155 or MATH 156 or MATH 157 or MATH 158 or MATH 159 or MATH 160 or MATH 161 or MATH 162 or MATH 163 or MATH 164 or MATH 165 or MATH 166 or MATH 167 or MATH 168 or MATH 169 or MATH 170 or MATH 171 or MATH 172 or MATH 173 or MATH 174 or MATH 175 or MATH 176 or MATH 177 or MATH 178 or MATH 179 or MATH 180 or MATH 181 or MATH 182 or MATH 183 or MATH 184 or MATH 185 or MATH 186 or MATH 187 or MATH 188 or MATH 189 or MATH 190 or MATH 191 or MATH 192 or MATH 193 or MATH 194 or MATH 195 or MATH 196 or MATH 197 or MATH 198 or MATH 199 or MATH 200

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MSCI 301	Optimisation Models and Methods	30	S1	P: (1) MSCI 204 or MSCI 215; (2) MSCI 216; (3) any one of COSC 121, ACIS 125, AFIS 125, ENEL 206, MATH 170, MATH 171, MATH 280, MATH 282, or any course involving an appropriate level of computer programming, as approved by the Head of Department. R: MSCI 315, MSCI 316 RP: MATH 203, MATH 251, MATH 252 or MATH 254.
MSCI 302	Probabilistic Operations Research Models	30	S2	P: (1) MSCI 204; (2) MSCI 210 or 30 points of 200-level courses in STAT; (3) Any one of COSC 121, ACIS 125, ENEL 206, MATH 170, MATH 171, MATH 280, MATH 282 or any approved course involving an appropriate level of computer programming. R: MSCI 310, MSCI 311, MSCI 312
MSCI 320	Strategic Operations and Supply Chain Management	15	S1	P: (1) MSCI 220; (2) 22 points 200 level from MSCI, MGMT, ACIS or AFIS. R: MSCI 304 RP: MSCI 221
MSCI 321	Materials, Logistics and Supply Chain Management	15	S1	P: MSCI 220, MSCI 221 R: MSCI 303
MSCI 323	Quality Management	15	S2	P: (1) MSCI 220 and MSCI 221; (2) 22 points at 200 level from MSCI, MGMT, ACIS, AFIS. R: MSCI 304
MSCI 324	Project Management	30	S2	P: (1) MSCI 220, MSCI 221 and 22 points from Commerce; or (2) 88 points at 200 level from Commerce, Science or Engineering R: MSCI 304, MSCI 322, AFIS 313
MSCI 340	Special Topic	15	NO	P: Subject to the approval of the Head of Department.

Mathematics

The 100-level core Mathematics (Calculus and Linear Algebra) courses are MATH 102 and 103. Both these courses are offered in Semester 1 and Semester 2.

To obtain 30 points at 100-level in core Mathematics, students can take any occurrence of MATH 102, followed by any occurrence of MATH 103. Such a route leads to enrolment in 200-level courses, and subsequently a degree with 300-level courses in Mathematics.

Students who have not passed Year 13 Mathematics, or its equivalent, are strongly advised to enrol in MATH 101 before advancing to MATH 102. MATH 120 or 130 can be taken alone or credited with any other 100-level core Mathematics course. MATH 170 is intended for students who want to progress in applied mathematics. It is recommended that students who enrol in MATH 170 enrol concurrently in MATH 103.

Satisfactory attendance at, and performance in, tutorials is required in all Mathematics courses.

For students first enrolled prior to 2010: Students majoring in Mathematics must complete 44 points from MATH 210–299 or equivalent, and at least 56 points from MATH 310–399.

For students first enrolled in 2010 onwards: Students majoring in Mathematics must complete at least 105 points in Mathematics above 100 level, including 60 points from MATH 301–394, and, 45 points from MATH 201, MATH 202, MATH 203, MATH 220 and MATH 240 (including MATH 201 and at least one of MATH 202 or MATH 203).

Note: EMTH 210 may replace MATH 201, and EMTH 211 may replace MATH 203 in these requirements.

MATH 101	Introductory Mathematics with Applications	15	S1	R: MATH 102, MATH 103, MATH 108, MATH 109, MATH 170, MATH 171, MATH 199, EMTH 118, EMTH 119, EMTH 171. Students may not enrol concurrently with, or after obtaining a pass, in these courses.
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Psychology

Students intending to complete the BSc majoring in Psychology must be credited with:

- (a) PSYC 105 and PSYC 106; and
- (b) PSYC 206, and one course from PSYC 207–211 (2010 only) or three courses from PSYC 207–211 (from 2011 onwards); and
- (c) At least 75 points of 300-level PSYC.

Notes:

1. In 2010 students may be permitted to major with one course from PSYC 207–211, in which case they will be required to pass a further 200- or 300-level course to complete the major.
2. From 2011 onwards, with the permission of the HOD, a student may substitute a 300-level course for one of PSYC 207–211.
3. COSC 110 and/or STAT 101 or STAT 111 or 131 are recommended as useful preparation for students progressing beyond 100-level in Psychology.
4. Students who wish to proceed to higher postgraduate degrees in Psychology must satisfy the requirements specified in (a) to (c) and in addition have been credited with PSYC 344.
5. Students intending to apply for the MSc in Applied Psychology must have completed PSYC 336 or an equivalent course and must meet the requirements of Note. 4 above.
6. Students who wish to become eligible to apply for the Postgraduate Diploma in Clinical Psychology must have completed PSYC 335 or an equivalent course, as well as meeting the postgraduate degree requirements for eligibility.
7. Students whose preparatory courses in Psychology were taken prior to 2005 should consult the HOD or a College Academic Advisor before enrolling in further PSYC courses.

PSYC	Course Name	Points	Level	Prerequisites
PSYC 105	Introductory Psychology - Brain, Behaviour and Cognition	15	S1	R: PSYC 103, PSYC 104
PSYC 106	Introductory Psychology - Social, Personality and Developmental	15	S2	R: PSYC 103, PSYC 104
PSYC 206	Research Design and Statistics	22	S1	P: PSYC 105 and PSYC 106
PSYC 207	Developmental Psychology	22	S1	P: PSYC 104, or PSYC 105 and PSYC 106
PSYC 208	Cognition	22	S2	P: PSYC 104, or PSYC 105 and PSYC 106, or with the approval of the HOD, a pass in a professional year of Engineering, or in approved courses in Computer Science, Linguistics, or Philosophy
PSYC 209	Sensation and Perception	22	S1	P: PSYC 104, or PSYC 105 and PSYC 106, or with the approval of the HOD, a pass in a professional year of Engineering, or in approved courses in Art, Art History, or Computer Science
PSYC 211	Personality	22	S2	P: PSYC 104, or PSYC 105 and PSYC 106
PSYC 332	Social Psychology	30	S1	P: PSYC 206. RP: 15 further points from PSYC 200.
PSYC 333	Biological Psychology	30	S1	P: PSYC 206. RP: 15 further points from PSYC 200/300.
PSYC 334	Learning and Behaviour Analysis	30	W	P: PSYC 206
PSYC 335	Abnormal Psychology	30	W	P: PSYC 206. RP: PSYC 207, PSYC 211
PSYC 336	Industrial and Organisational Psychology	15	S2	P: PSYC 206. RP: PSYC 211, 15 further points from PSYC 200
PSYC 338	Family Psychology	30	S2	P: EITHER PSYC 206 or PSYC 207; OR PSYC 105 and PSYC 106 PLUS at least 15 points at 200-level or above in a course approved by the HOD Psychology

PSYC 339	Health Psychology and Behaviour Change	30	S2	P: PSYC 206
PSYC 340	Cognitive Psychology	30	W	P: PSYC 208
PSYC 341	Special Topic: Environmental Psychology	15	S1	P: PSYC 206, OR 30 points of 100-level Psychology PLUS 15 points of relevant advanced courses approved by the Head of Department. RP: Any of BIOL 112, GEOG 106, GEOG 107, GEOG 108; PHIL 110
PSYC 342	Special Topic	30	W	P: PSYC 206
PSYC 343	Psychology of Adult Development	30	NO	P: P: EITHER one course from PSYC 206 - PSYC 211: OR PSYC 105 and PSYC 106 PLUS 15 points from a course approved by the HoD Psychology.
PSYC 344	Research Methods	30	S2	P: PSYC 206
PSYC 345	Special Topic: Psychology and Sport	30	S2	P: (1) PSYC 105 and PSYC 106; and (2) PSYC 206 OR 15 points at 200-level or above in a relevant subject(s) approved by the Head of Department
PSYC 346	Judgement and Decision Making	15	S1	P: PSYC 206, or equivalent preparation

Note: 200-level Psychology courses will change from 22 points to 15 points in 2011.

Science and Entrepreneurship

SCIE 301	Science and Entrepreneurship in New Zealand, Part I	15	S1	P: 108 points, including 44 points at 200-level.
SCIE 302	Science and Entrepreneurship in New Zealand, Part II	15	S2	P: SCIE 301

Science, Maori and Indigenous Knowledge

Note: This is an integrated multi-disciplinary course between the School of Maori and Indigenous Studies and the College of Science

SCIM 101	Science, Maori and Indigenous Knowledge	15	S2	R: MAOR 172 EQ: MAOR 172
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Soil Science

Students who have not taken Chemistry to NCEA Level 3 are strongly advised to take CHEM 111/121 and 112, or CHEM 113 and 112, or CHEM 114 and CHEM 115 before enrolling in SOIL 203.

SOIL 203	Soil Fertility	15	S2	P: 30 points from CHEM, GEOL, BIOL, or by approval Chair Forestry Board of Studies R: SOIL 201
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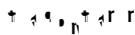
Statistics

STAT 211	Random Processes	15	NO	P: STAT 111, STAT 112, MATH 103, MATH 108, MATH 109, MATH 199, EMTH 119 or (STAT 101 and (MATH 102 or EMTH 118)) R: STAT 216
STAT 213	Statistical Inference	15	S2	P: MATH 103, MATH 199, EMTH 119, (STAT 101 and (MATH 102 or EMTH 118)) or ((STAT 111 or STAT 112) and (MATH 108 or MATH 109)) R: STAT 214
STAT 221	Monte Carlo Methods	15	S1	P: STAT 111, STAT 112, MATH 103, MATH 108, MATH 109, MATH 115, MATH 171, MATH 199, EMTH 119 or (STAT 101 and (MATH 102 or EMTH 118)) R: STAT 218
STAT 305	Statistics Project	14	SU2	P: 33 points from STAT 210-299, and approval of HOD. R: MATH 305
STAT 312	Sampling Methods	15	S1	P: 11 pts from STAT 212, STAT 214, STAT 222, STAT 224 and a further 11 pts from STAT 210 to STAT 299.
STAT 313	Computational Statistics	15	S1	P: (MATH 109 or MATH 199) and 11 points from (STAT 212, STAT 214, STAT 222, STAT 224) and a further 11 points from STAT 210-299.
STAT 314	Bayesian Inference	15	NO	P: (MATH 109 or MATH 199) and 11 points from (STAT 212, STAT 214) and a further 11 points from STAT 210-299. RP: STAT 212 and STAT 214.
STAT 315	Multivariate Statistical Methods	15	S2	P: 11 points from (STAT 214 or STAT 224) and a further 11 points from STAT 210-299, or subject to Head of Department approval. RP: MATH 252 or MATH 254
STAT 316	Applied Stochastic Modelling	15	NO	P: (1) 11 points from STAT 212, STAT 214, STAT 216 and a further 11 points from STAT 210 to STAT 299; (2) MATH 109 OR MATH 199. R: MATH 376 RP: STAT 212, STAT 216 and 11 points from MATH 252, MATH 254, MATH 261, MATH 262, MATH 264, EMTH 202, EMTH 203, EMTH 204 EO: MATH 376
STAT 317	Time Series Methods	15	S2	P: (1) 11 points from STAT 212, STAT 214, STAT 222, STAT 224 and a further 11 points from STAT 210 to STAT 299, ECON 211 and MSC1210; (2) MATH 109 or MATH 199 RP: 11 points from MATH 251, MATH 252, MATH 254 and 11 pts from MATH 271, MATH 282, STAT 216
STAT 318	Data Mining	15	S2	P: (1) 11 points from STAT 210 to 299; (2) 11 points from the STAT 210 to 299, or COSC 200 to 299 or any other relevant subject with Head of Department approval.
STAT 391	Special Topic	15	S1 S2	P: Subject to the approval of the Head of Department
STAT 392	Special Topic	15	S1 S2	P: Head of Department approval
STAT 393	Independent Course of Study	15	S1	P: Head of Department approval.
STAT 394	Independent Course of Study	15	S2	P: Head of Department approval.
STAT 395	Statistics Project	15	NO	P: 33 points from STAT 210-299, and approval of Head of Department

Schedule of Endorsements for the Degree of Bachelor of Science



To qualify for an endorsement in Biosecurity a student must be enrolled for a Bachelor of Science in Biological Sciences and must complete the 360 point requirement for the BSc.



The following courses are required for the endorsement:

100-level

BIOL 111 Cellular Biology and Biochemistry (15 points)

BIOL 112 Ecology, Evolution and Conservation (15 points)

BIOL 113 Diversity of Life (15 points) **and**

CHEM 114 Introductory Chemistry (15 points) **or**

CHEM 112 General Chemistry (15 points)

Total 100-level points required: 60 points

200-level

BIOL 209 Introduction to Biological Data Analysis (15 points) **or**

STAT 222 Applied Statistics (15 points) **or**

STAT 224 Regression Modelling (15 points) **and**

BIOL 231 Molecular Genetics (15 points)

BIOL 270/FORE202 Ecology (30 points)

BIOL 271 Evolution (15 points)

BIOL 273 New Zealand Biodiversity and Biosecurity (15 points) **and**

BIOS 101 Issues in New Zealand Biosecurity **or**

BIOS 201 Issues in New Zealand Biosecurity (22 points)

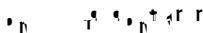
Total 200-level points required: 112 points

300-level

BIOL 332 Genetics and Evolution of Invasive Species (15 points) **and**

BIOL 377 Global Change and Biosecurity (30 points)

Total 300-level points required: 45 points



Students will normally follow one of two pathways: a molecular/genetics pathway or an ecological/applied pathway.

Recommended courses should be selected from:

Molecular/genetics pathway

100-level

LAWS 101 The Legal System

SCIM 101 Science, Maori and Indigenous Knowledge

200-level

BIOL 232 Genetics (up to 2009)

BIOL 213 Microbiology and Genetics

BIOL 252 Plant Organisation and Physiology (up to 2009)

BIOL 255 Plant Ecophysiology

CHEM 224 Analytical and Environmental Chemistry

ANTA 201 Antarctica and Global Change

POLS 206 Public Policy: An Introduction

300-level

BIOL 303 Forensic Genetics

BIOL 330 Advanced Concepts in Genetics

BIOL 313 Advanced Microbiology

BIOL352 Plant Development & Biotechnology

BIOL 309 Experimental Design and Data Analysis for Biologists

Ecological/applied pathway

100-level

LAWS 101 The Legal System

SCIM 101 Science, Maori and Indigenous Knowledge

200-level

BIOL 211 Insect Biology

BIOL 212 Marine Biology

BIOL 215 Plant Diversity and Systematics

BIOL 214 Diversity of Algae (up to 2009)

FORE 218 Forest Biology

ANTA 201 Antarctica and Global Change

POLS 206 Public Policy: An Introduction

300-level

BIOL 305 Practical Taxonomy for Field Biologists

BIOL 309 Experimental Design and Data Analysis for Biologists

BIOL 371 Evolutionary Ecology

FORE 443 Biosecurity Risk Management

BIOL 374 Marine Ecosystems

BIOL 375 Freshwater Ecosystems

BIOL 378 Population Ecology and Conservation

BIOL 379 Sustaining Native Biodiversity in Primary Production Systems



To qualify for an endorsement in Environmental Science, a student must be a Biology or Chemistry or

200-level

BIOL 209 Introduction to Biological Data Analysis
 BIOL 211 Insect Biology
 BIOL 212 Marine Biology
 BIOL 213 Microbiology and Genetics
 BIOL 214 Diversity of Algae (up to 2009)
 BIOL 252 Plant Organisation and Physiology
 (up to 2009)
 BIOL 270 Ecology
 BIOL 273 New Zealand Biodiversity and Biosecurity

300-level

BIOL 309 Experimental Design and Data Analysis for Biologists
 BIOL 354 Animal Eco-physiology
 BIOL 374 Marine Ecosystems
 BIOL 375 Freshwater Ecosystems
 BIOL 377 Global Change and Biosecurity
 BIOL 378 Population Ecology and Conservation
 BIOL 379 Sustaining Native Biodiversity in Primary Production Systems

100-level

CHEM 111 General Chemistry A or
 CHEM 113 Engineering Chemistry (up to 2009)
 CHEM 112 General Chemistry B or
 CHEM 115 General Chemistry C (up to 2009)

200-level

CHEM 224 Analytical & Environmental Chemistry
 CHEM 233 Introduction to Physical Chemistry
 CHEM 282 Measurement and Analysis

300-level

CHEM 324 Analytical and Environmental Chemistry
 CHEM 382 Instrumental Methods

100-level

GEOG 106 Global Environmental Change
 GEOG 107 Sustainable Cities: Environmental and Social Perspective on Global Urbanisation
 GEOG 108 Resources and Sustainability

200-level

GEOG 201 Environmental Processes: Principles and Applications
 GEOG 205 Introduction to Geographic Information Systems
 GEOG 206 Resource and Environmental Management
 GEOG 211 Environmental Processes: Research Practice
 GEOG 214 Applications in Physical Geography

300-level

GEOG 305 Environmental Hazards and Management
 GEOG 309 Research Methods in Geography
 GEOG 310 Weather Systems
 GEOG 311 Coastal Studies
 GEOG 312 Glacial Processes
 GEOG 313 Remote Sensing Data for Geographic Analysis
 GEOG 323 Geospatial Analysis in the Social and Environmental Sciences
 GEOG 324 Advanced GIS
 GEOG 340 Field-Based Geomorphic Applications

100-level

GEOL 111 Planet Earth: An introduction to Geology
 GEOL 112 Understanding Earth History
 GEOL 113 Environmental Geohazards

200-level

GEOL 230 Field Studies A (up to 2009)
 GEOL 231 Field Studies B (up to 2009)
 GEOL 234 Stratigraphy and Palaeontology (up to 2009)
 GEOL 235 Earth Surface Processes (up to 2009)
 GEOL 236 Earth Dynamics and Plate Tectonics (up to 2009)
 GEOL 240 Field Studies A – Mapping
 GEOL 241 Field Studies B – Field Techniques
 GEOL 243 Depositional Environments and Stratigraphy
 GEOL 244 Structural Geology and Global Geophysics
 GEOL 245 Earth System Science

300-level

GEOL 331 Principles of Basin Analysis
 GEOL 333 Evolution of the Biosphere
 GEOL 337 Economic Geology and Geophysical Exploration
 GEOL 338 Engineering and Mining Geology
 GEOL 351 Advanced Field Studies A
 GEOL 352 Advanced Field Studies B

100-level

FORE 111 Trees, Forests and the Environment

200-level

FORE 218 Forest Biology

400-level

FORE 443 Biosecurity Risk Management

Note: This course must be selected as part of the 106 non-science points for the degree

FORE 445 Environmental Forestry

Note: This course must be selected as part of the 106 non-science points for the degree

L 100-level

MATH 171 or MATH 170 Mathematical Modelling and Computation

200-level

ENNR 203 Environmental Quality and Ecosystems

Note: This course must be selected as part of the 106 non-science points for the degree

300-level

ENNR 305 Ecological Engineering

Note: This course must be selected as part of the 106 non-science points for the degree

100-level

PHIL 139 Ethics, Politics and Justice

200-level

PHIL 249 Environmental Ethics

300-level

PSYC 341 Special Topic: Environmental Psychology

100-level

SCIM 101 Science, Maori & Indigenous Knowledge

100-level

STAT 101 or STAT 111 Statistics 1 or

STAT 112 Statistics 1 (up to 2009)

200-level

STAT 201 or STAT 222 Applied Statistics

STAT 202 or STAT 224 Regression Modelling

300-level

STAT 312 Sampling Methods

STAT 315 Multivariate Statistical Methods

STAT 316 Applied Stochastic Modelling

See also General Course and Examination Regulations

1. Eligibility

Every candidate for the Degree of Bachelor of Speech and Language Therapy shall have been approved as a candidate by the Dean of Science.

2. Requirements

To qualify for the Degree, a candidate must follow a course of study as laid down in the Schedule to these Regulations consisting of not fewer than 4 EFTS (four years of full-time study) and be credited with:

- (a) successful completion of courses in the Intermediate Examination;
- (b) passes in the Examinations prescribed for the first, second and third professional years, and
- (c) satisfactory performance in such other practical work as may be prescribed in order to complete a minimum of 300 hours of supervised clinical practice.

Note: Entry into the First Professional Examination is limited. Candidates must submit an enrolment application and a separate application form to the Head of the Department of Communication Disorders.

3. Admission

- i. All students planning to complete a Bachelor of Speech and Language Therapy (BSLT) must apply for admission to the degree programme prior to their first professional year. Applications for admission to the first professional year must be received at the Department of Communication Disorders on the prescribed form no later than 1 November in the year preceding desired entry. When the Intermediate Year is not completed at the University of Canterbury, it is the responsibility of the student to ensure that an up-to-date official academic record is sent to the Department of Communication Disorders as soon as it is available. Students must also Apply to Enrol.
- ii. To be eligible for admission students must have completed Intermediate Year courses of at least 120 points. Selection is based on academic merit but in cases of equal merit preference will be given to people who have completed the recommended courses.

- iii. Students who have not completed the intermediate year at the University of Canterbury and are admitted to the first professional year are required to complete and pass CMDS161 concurrently with the first professional year programme.
- iv. Admission to the degree is normally limited to 40 candidates. Up to four additional places may be designated for international students. *Note: See Limitation of Entry Regulations.*
- v. Admission to CMDS 281 and CMDS 282, the practicum courses in the First Professional Year, will be granted only to students who have been formally admitted to the degree programme. Admission to other professional courses may be approved for students enrolled in other degrees at the discretion of the Head of Department.
- vi. Admission to the degree is competitive and selection will be based upon grades in relevant course work (generally a B+ or better grade average), a statement of interest, and for those meeting the basic admission criteria (as indicated by the application material and academic transcripts) an interview with Departmental representatives. Relevant work or volunteer experience with individuals who have communication disorders may also be considered when entry decisions are made.
- vii. The selection into the degree programme is by the Admissions Committee of the Department of Communication Disorders who have been delegated authority by the Academic Board. The Admissions Committee normally meets during the second week of December following the publication of grades.
- viii. Exemption from the Intermediate Year may be granted to individuals with qualifications and, where appropriate, relevant work experience, approved by the Head of Department. Students admitted under this clause may be required to take additional qualifying courses.

4. L Students admitted to the degree must pre-register for the practicum courses CMDS 343 (up to 2009), CMDS 381, CMDS 382, CMDS 482 and CMDS 484 by 15 October of the year preceding the course. Students pre-register by completing the application form available through the Department of Communication Disorders. Students who do not pre-register may not be admitted except under exceptional circumstances and by the approval of the Dean of Science.

5. P A candidate shall be required to pass each Examination for the first, second and third professional years as a whole. In recommending a candidate for a pass in any of these Examinations, the Dean of Science shall take into consideration the candidate's performance in all of the subjects of the Examination.

In exceptional circumstances, a candidate who has failed to pass an Examination as a whole may be credited with some of the subjects of the Examination. The candidate may then present, in a subsequent year, the remaining subjects of that Examination together with such subjects of the succeeding Professional Year as the Academic Board may permit.

6. T The personal course of study of every candidate shall be as approved by the Dean of Science. In special cases the Academic Board may approve a course of study which does not conform to these or other relevant Regulations. Any application under this Regulation must be submitted in writing to the Head of the Department of Communication Disorders.

7. T The Degree of Bachelor of Speech and Language Therapy may be awarded with or without Honours. A candidate who has fulfilled the requirements herein prescribed for the degree and whose work has been of a sufficiently high standard may be recommended by the Dean of Science for admission to the degree with First or Second Class Honours. The candidates obtaining Second Class Honours shall be listed in two divisions (Division 1 and Division 2).

- 15
4. It is the responsibility of the student to purchase reading materials as recommended by the Department of Communication Disorders.
5. Students from other universities should contact the College of Science Student Advisor for information on equivalent and acceptable courses.

First Professional Year

All courses are compulsory.

Language Disorders Advanced Topics in Speech and				
461				
S2CMDS				
15				

Aural Rehabilitation

442

10

S1CMDS

15

Cultural and Ethical Issues

410

S1CMDS

15

First Professional Year

All courses are compulsory.

CMDS 465	Dysphagia and Related Disorders: Management	15	S1	P: CMDS 365 (SPTH 365)
CMDS 482	Clinical Practice 5	15	SU2 S1	P: CMDS 381 (SPTH 381) and CMDS 382 (SPTH 382)
CMDS 484	Clinical Practice 6	30	SU2 S2	P: CMDS 381, CMDS 383.
CMDS 490	Research Project	30	W	P: Subject to approval of the Head of Department.

See also General Course and Examination Regulations.

The Programme for this Certificate

- Subjects: The Certificate in Science may be awarded for courses passed in the following subjects: Astronomy, Biochemistry, Biological Sciences, Chemistry, Computer Science, Economics, Electronics, Finance, Geography, Geology, Linguistics, Management Science, Mathematics, Philosophy, Physics, Psychology, and Statistics.

Note: The courses for the subjects and their prerequisites are given in the Schedule of Courses for the Degree of Bachelor of Science.

- Structure: To qualify for the Certificate in Science a candidate must pass courses totalling at least 72 points at the 100- and/or 200-level, in courses listed in the Schedule to the Bachelor of Science.

The Certificate may be studied full-time or part-time. Other than in exceptional circumstances approved by the Dean of Science, the maximum elapsed time from first enrolment will be three years.

Admission to the Programme

The Certificate in Science is an introductory qualification in Science for candidates wishing to: test their scholastic ability at university prior to proceeding to a Bachelor's degree programme; broaden or update their knowledge for employment reasons, or: engage in lifelong learning.

- Candidates must satisfy the admission

including 84 points at 300-level;

Note: Students who enter 200-level honours (Pre-BSc(Hons)) under this regulation transfer from an incomplete BSc and graduate BSc(Hons) only.

- (b) Either
- i. satisfied the prerequisites for the subject to be undertaken in the BSc(Hons) as specified in the Schedule to these Regulations; or
 - ii. completed a qualifying course prescribed by the Head of Department/School and approved by the Dean of Science of a standard equivalent to the pre-requisite courses;
- (c) demonstrated a high standard of achievement in previous course work, normally entailing having achieved at least a B+ average in the required courses for their undergraduate degree subject major.
- (d) been approved as a candidate for the degree in that subject by the Head of Department/School and the Dean of Science.

4. Assessment

A candidate shall be assessed on the basis of such written examination, oral examinations, research project, and other work as prescribed for the subject offered. Candidates shall not concurrently enrol in additional undergraduate courses except with the permission of the Head of Department/School and Dean of Science. The programme of study shall satisfy the following conditions.

- (a) Approval of programme of study
- i. Every programme of study for the degree shall contain the 400-level requirements specified by the Department in the Schedule to the Regulations for the Bachelor of Science with Honours. The programme of study must have a minimum of 1.2 EFTS, which includes a research project of at least 30 points. With the approval of the Head of Department/School, a candidate may replace courses up to 60 points with 400-level honours courses prescribed for other subjects.
 - ii. In special cases a personal programme of study may be approved which does not conform to the course of study requirements. Applications for a special course of study shall be submitted in writing to the appropriate Head of Department/School and forwarded to the Dean of Science for approval. The application will be considered on its merits and in the light of special circumstances.
- (b) Courses not to be repeated or failed: All courses

A candidate who has commenced study for the degree and withdraws from all or part of the programme without completing course assessment

- (3) at least 30 points from courses in Mathematics, Statistics or ENGR 102; and
 (4) CHEM 333, 361, 362, 373, 381 and 382.

Note: With the approval of the Head of Department, 30 points from CHEM 333 and CHEM 361-373 may be replaced by CHEM 324 or CHEM 325.

h n t i f
 CAMS 449 Research Project, and eight other approved courses chosen from MATH 401-490 (other than MATH 449), MSCI 451-462 or STAT 401-490 (other than STAT 449). With the approval of the Programme Co-ordinator, candidates may substitute one or two courses from other subjects in an applications area.

- P: (1) 44 points from MATH 251, 252, 254, 261, 262, 264 (Note: It is recommended that candidates also include one of MATH 171, 271, or 282); and
 (2) MATH 381; and
 (3) 70 points from MATH 323, 346, 352, 353, 361, 362, 363, 371; and
 (4) 44 points from other approved courses at 200-level or above (normally from CHEM, COSC, MATH, MSCI, PHYS, STAT or ENGINEERING courses).

h n t i f
 COSC 460 and eight half-courses to be selected (with the approval of the Head of Department) from COSC 401-439.

Note: Not all half-courses may be available in one year.

- P: (1) 66 points from 200-level COSC; and
 (2) a total of 36 points from courses in Mathematics and Statistics; and
 (3) 84 points from 300-level COSC.

h n t i f
 Four courses and a research project (ECOL 480). The courses are to be selected, with the approval of the School of Biological Sciences Fourth Year Coordinator, from BIOL 421, BIOL 453, BIOL 470-479, BIOL 490, ENVR 410, ENVR 411, FORE 616.

- P: (1) 60 points from BIOL 370-379; and
 (2) BIOL 309 or BIOL 301 or equivalent (eg, GEOG 309 or PSYC 206).

h n t i f
 ECON 680 and eight courses or their equivalent from ECON 601-679. Enrolment in any combination of courses is subject to the approval of the Head of Department. Some second semester courses may have a first semester course as a prerequisite. ECON 680 is a whole year course. Candidates can normally attempt each course on offer only once. All full-time candidates shall normally take four courses and

ECON 680, in each semester.

- P: (1) ECON 201, and 204 or 230 or 231; and
 (2) ECON 211 or 213, or (STAT 212 and 214) or STAT 213; and
 (3) MATH 104 or 105; or (106 or 108) and (107 or 109); or (102 and 103); and either
 (4) ECON 351, 353 and 355 (before the year 2001), or
 (5) ECON 321, 322, 323, 324, and 325.

h n t i f
 A total of seven courses plus the Research Project (ENGE 490). Courses must include ENGE 471, ENGE 472, ENGE 485, ENGE 486, at least one course chosen from GEOL 473-489, and at least one course chosen from ENGE 476-482, with the approval of the Head of the Department of Geological Sciences.

Notes:

- Practical and fieldwork may be required as part of any ENGE 471-486 courses.*
 - With the approval of the Head of the Department of Geological Sciences, one of the courses ENGE 471-486 may be replaced by one other ENGE course.*
 - With the approval of the Head of the Department of Geological Sciences, up to two courses from GEOL 473-489 may replace up to two of the optional courses, or one full year course from another subject may replace two of the optional courses.*
 - Not all courses may be offered in any one year.*
- P: (1) 18 points of MATH 100-level courses; and
 (2) GEOL 230 and GEOL 231 (or equivalent fieldwork); and
 (3) at least 44 points from GEOL 221-226, 232-238; and
 (4) normally at least 36 points from ASTR, BIOL, CHEM, COSC, GEOG, PHYS, or STAT courses; and
 (5) GEOL 351 and GEOL 352 (or equivalent fieldwork); and
 (6) 56 points from GEOL 300-level courses.

Note: An additional 28 points at GEOL 300-level is strongly advisable.

h n t i f
 ENVR 410, ENVR 411, a project ENVR 480, and courses totalling not less than 0.75 course weighting selected from relevant courses offered by the Environmental Science home departments/schools of Forestry (FORE), Geography (GEOG), Geological Sciences (GEOL and ENGE), and Biological Sciences (BIOL), and from relevant courses, as approved by the Co-ordinator, that are offered by Antarctic Studies (ANTA), Biochemistry (BCHM), Chemistry (CHEM), Chemical

4. A candidate may be enrolled for the degree of Master of Antarctic Studies either on a full-time or part-time basis. A part-time candidate is one who, because of employment, health, family or other reasons, is unable to devote his or her full-time to study. Part-time enrolment requires the approval of the Dean of Science.

5. A candidate offering both Part I and Part II shall normally follow a course of study for not less than two years of full-time study, and Part I will be completed in not less than one year and no more than two years of full-time study.

The time limits for the thesis or research project will be determined by the Dean of Science on the recommendation of the Chair of the Board of Studies: Antarctic Studies, but will normally be no less than one year and no more than two years of full-time study. A part-time candidate shall be required to follow a programme of study with time limits determined by the Dean of Science on the recommendation of the Chair of the Board of Studies: Antarctic Studies.

- 6.**
- (a) The requirements for Part I shall be ANTA 401 and ANTA 402 and appropriate 400-level courses approved by the Chair of the Board of Studies: Antarctic Studies and listed in the University of Canterbury or other University Calendars relevant to a coherent programme of study for each student. The total course weight of the Part I programme will be at least 1.0 EFTS.
 - (b) Candidates must satisfy the Board of Studies: Antarctic Studies, that they have the necessary prerequisite knowledge to undertake the proposed courses from the Schedule.

- (c) Re-enrolment in Part I to repeat failed courses or offer any other course in its place will only be permitted in exceptional circumstances and requires a recommendation from the Chair of the Board of Studies: Antarctic Studies and the permission of the Dean of Science.
- (d) A candidate who fails any courses offered for Part I and is not successful under Regulation 6(c), shall not be awarded a pass in Part I and shall not be permitted to proceed to Part I.

recommendation of the examiners, permit the candidate to revise the thesis and re-submit it by a specified date.

- (e) If the examiners' final recommendation is that the thesis be awarded a failing grade, the degree of Master of Audiology shall not be awarded.

7. L A S T I N G R E P O R T

In cases of exceptional merit candidates may, on the recommendation of the examiners, have the degree awarded with Distinction. In recommending a candidate for admission to the degree and in recommending Distinction the examiners will take into consideration the combined results of the thesis, clinical practice, and other courses taken.

Note: The award of Distinction normally requires a grade point average of 7.00 or greater.

Schedule

1. The Degree of Master of Science (MSc)

See also *General Course and Examination Regulations*.

1. The subjects for the Degree of Master of Science are those listed in Schedule 1 to these Regulations.

- (a) The subjects for the Degree of Master of Science are those listed in Schedule 1 to these Regulations.
- (b) The Degree of Master of Science may be awarded with Distinction or Merit provided that the additional ~~2~~ Fer

5. *Ph.D.*

A candidate in Applied Psychology shall, instead of presenting a thesis, satisfy the Part II requirement by passing in one year a course as specified in Schedule 1 to the MSc Regulations, and presenting a dissertation by a prescribed date.

10. Where a thesis is required, the maximum time limits for its presentation are specified in Schedule 2 to these regulations. The maximum time limit for a part-time candidate will be determined by the Dean of Science, as noted in Regulation 6. The minimum time limit is that required by the candidate to complete the equivalent of 1.0 EFTS (typically this would be close to one year full-time study).

11. In special circumstances the Dean of Science may approve an extension of the time specified in Schedule 2 to these regulations.

12. (a) Where a thesis is required, the requirements of the General Course and Examination Regulations, Part L, shall be met.

(b) A candidate shall, before commencing the research to be described in the thesis, secure the approval of the Head of the Department/School concerned for the topic chosen and for the proposed research programme.

(c) Supervisors shall be appointed in accordance with the General Course and Examination Regulations, Part L.

(d) The candidate shall work under the direction of the supervisors and shall meet with and report to the senior supervisor as has been determined under the agreement signed on registration of the research proposal. Except for field work in New Zealand under the direction of the senior supervisor, the candidate shall normally work on the University campus, and laboratory work shall normally be carried out within the University institution. A Head of Department/School may give approval for work to be carried out at another institution in New Zealand for a period not exceeding one month, but permission of the Dean of Postgraduate Studies is required if the period exceeds one month, or if any of the work, including field work, is to be carried out overseas.

13. (a) When a thesis is examined, there shall be two examiners, as specified in the General Course and Examination Regulations, Part L.

(b) A candidate shall not present a thesis any part of which has previously been accepted for any degree.

(c) The examiners may require the candidate to undergo an oral examination on the subject of the thesis or on related subjects.

(d) If the thesis at its first presentation is unsatisfactory, the Dean of Science may, on the recommendation of the examiners, permit the candidate to revise the thesis and re-submit it by a specified date.

(e) If the examiners' final recommendation is that the thesis be awarded a failing grade, the degree of Master of Science shall not be awarded.

Note: The weighting ratios of Parts I and II, as

"thesis"

- (c) The requirements of Parts I and II shall normally be completed by a full-time candidate within the time limits specified in Schedule 2 to these Regulations. The time limits for a part-time candidate shall be determined by the Dean of Postgraduate Studies under Regulation 6.
- (d) A full-time candidate for the degree in any subject shall be eligible for the award of Honours only if all the requirements for the degree are completed within three years of the date of enrolment as a candidate for Part I of the degree in that subject. The eligibility for Honours of a part-time candidate shall be determined in each case by the Dean of Postgraduate Studies.
- (e) In special circumstances the Dean of Postgraduate Studies may, on recommendation of the Head of Department/School, extend the period of eligibility for the award of Honours beyond the time limits specified in 15(c), and/or 15(d).

Note: For the purposes of Regulation 15(d) the date of enrolment is 1 March or 1 August of the year in which the candidate first enrolls for the degree, depending on whether the candidate started Part I in the first or second semester, respectively.

16. **Thesis not recommended**

Where a thesis has been presented for the Degree of Doctor of Philosophy on a subject listed in Schedule 1 to these regulations, and the examiners are of the opinion that it does not justify the award of that degree, they may recommend the award of the Degree of Master of Science, without Honours or

courses credited towards the Postgraduate Diploma in Engineering Geology.

- P: (1) GEOL 351 and GEOL 352 (or equivalent fieldwork), and 56 points from other GEOL 300-level courses to have been passed with a grade average that meets the approval of the Head of Department (the normal requirement is at least a B grade average); and
- (2) 18 points of MATH 100-level courses. (Note: This prerequisite may be waived by the Head of Department if the student can demonstrate an existing suitably high level of ability in Mathematics.)

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Part II: A thesis (MBIO 690) which shall normally be presented no later than 16 months after the date of enrolment for Part II. Students must consult the MSc regulations for details of other requirements for this degree. In determining the class of honours, Part I and Part II are weighted in the ratio 2:3.

- P: (1) BIOL 313; and
(2) One course selected from BIOL 331, BCHM 301, BIOL 330.

Note: Students will normally be expected to take BIOL 309.

PHIL
Part I: Eight courses from PHIL 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 463, 464, 467, 468, 469, 470, 471, 472, 474, 475 (as for Philosophy BA(Hons)).

Part II: A thesis (PHIL 695).

In determining the class of Honours, Part I and II are weighted in the ratio 1:1.

- P: 56 points in Philosophy at 300-level.

PHYS
Part I: PHYS 480 and five courses chosen from PHYS 401–460. At least three courses from PHYS 401–440. Not all courses may be available in any one year.

With the approval of the Head of Department, up to two of the courses may be replaced by appropriate courses from another subject. *Note: The choice of courses is subject to the approval of the Head of Department.*

Part II: A thesis (PHYS 690) which shall normally be presented not later than 12 months after the date of enrolment for Part II.

- P: 84 points at 300-level approved by the Head of Department.

In determining the class of honours, Parts I and II are weighted in the ratio 2:3. Students should consult the MSc Regulations for further requirements.

PHYS 2 9 3



5. Thesis and Examination Regulations

- i. The thesis work shall be completed, and the thesis submitted and examined, in accordance with the requirements of the General course and Examination Regulations, Part L, Theses.
- ii. The examiners may require a candidate for MSLT to undergo an oral examination.

6. Award of Distinction

The degree may be awarded with Distinction. In recommending a candidate for admission to the degree and in recommending Distinction the combined results of the thesis and CMDS 605 will be taken into account. The thesis shall be weighted as contributing 87% toward the grade average. Note: The award of Distinction requires a grade point average of 7.0 or greater.

Schedule to the Regulations for the Degree of Master of Speech and Language Therapy

Students are required to take:

CMDS 605 Advanced Clinical Practicum, Supervision, and Administration (0.125 EFTS)

CMDS 695 MSLT Thesis* (0.875 EFTS)

Note: Part-time enrolment in the Thesis (0.65 EFTS) is available on approval.

**Thesis must be completed within 12 months (full-time) and may be started in either the summer at the end of Year 1, or the first semester of Year 2, finishing in either the second semester of Year 2 or the summer of Year 2, respectively.*

Part-time Enrolment in the Thesis

See also General Course and Examination Regulations.

1. Admission to the Postgraduate Certificate

Every candidate for the Postgraduate Certificate in Antarctic Studies shall have:

- (a) i. qualified for the award of any appropriate degree in New Zealand; or
 - ii. be admitted ad eundem statum with graduate status in the University of Canterbury; and
- (b) been approved as a candidate for the Postgraduate Certificate by the Dean of Science; and
- (c) satisfied the medical examination as prescribed by Antarctica New Zealand.

Note: Admission to the Postgraduate Certificate is subject to Admission Regulations E Limitation of Entry Regulations.

Application for admission to the Postgraduate Certificate programme must be made by 1 August in the year of enrolment in the course.

- i. will, with the permission of the Dean of Postgraduate Studies on the recommendation of the Head of Department, be enrolled part time in the MA or MSc degree, and
 - ii. must maintain satisfactory progress in their work for the degree in order to maintain enrolment in the Diploma.
- (c) On the recommendation of the Head of Department and with the permission of the Dean of Postgraduate Studies, students may be permitted to enrol in a PhD instead of a Master of Arts or Master of Science. (*Note: This includes transfer to the PhD under 3(d) of the PhD Regulations.*)

3. Candidates for the Diploma who are qualified to do so may apply to enrol concurrently in a PhD. Such candidates

- (a) will, with the permission of the Dean of Postgraduate Studies, on the recommendation of the Head of Department, be enrolled part time in the PhD, and
- (b) must maintain satisfactory progress in their work for the degree in order to maintain enrolment in the Diploma.
- (c) will only be permitted to enrol concurrently in PSYC 670 Internship in Clinical Psychology and the PhD if it is expected that the candidate will have submitted a thesis for the PhD.

PSYC 670 Internship in Clinical Psychology and the PhD if it is expected that the candidate will have submitted a thesis for the PhD.

PSYC 670 Internship in Clinical Psychology and the PhD if it is expected that the candidate will have submitted a thesis for the PhD.

2. Application for admission must be made by 30 September in the previous year.
3. As provided for in Regulation 3 above, concurrent enrolment in PhD and the internship will only be approved if it is expected that the candidate will

complete the PhD by the end of the internship training. If approval is not given then a candidate must demonstrate satisfactory progress on the PhD before concurrent enrolment in the internship is approved.



See also General Course and Examination Regulations.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847. 848. 849. 850. 851. 852. 853. 854. 855. 856. 857. 858. 859. 860. 861. 862. 863. 864. 865. 866. 867. 868. 869. 870. 871. 872. 873. 874. 875. 876. 877. 878. 879. 880. 881. 882. 883. 884. 885. 886. 887. 888. 889. 890. 891. 892. 893. 894. 895. 896. 897. 898. 899. 900. 901. 902. 903. 904. 905. 906. 907. 908. 909. 910. 911. 912. 913. 914. 915. 916. 917. 918. 919. 920. 921. 922. 923. 924. 925. 926. 927. 928. 929. 930. 931. 932. 933. 934. 935. 936. 937. 938. 939. 940. 941. 942. 943. 944. 945. 946. 947. 948. 949. 950. 951. 952. 953. 954. 955. 956. 957. 958. 959. 960. 961. 962. 963. 964. 965. 966. 967. 968. 969. 970. 971. 972. 973. 974. 975. 976. 977. 978. 979. 980. 981. 982. 983. 984. 985. 986. 987. 988. 989. 990. 991. 992. 993. 994. 995. 996. 997. 998. 999. 1000.

approval of the Head of Department (the normal requirement is at least a B-grade average). In addition, 15–18 points of MATH 100-level courses are required. This may be waived by the Head of Department if the student can demonstrate an existing suitably high level of ability in Mathematics.

2. Candidates seeking admission may be required to pass a qualifying programme prior to commencing the Postgraduate Diploma in Engineering Geology or students may be required to undertake studies concurrently.
3. A relevant tertiary qualification plus work experience may be deemed appropriate for entry to the Diploma.

2. The programme of study consists of ENGE 471, ENGE 472, ENGE 485, ENGE 486, ENGE 495, at least one course chosen from GEOL 473-489 and at least one course chosen from ENGE 476-482 (as for Engineering Geology BSc(Hons)), with the approval of the Head of the Department of Geological Sciences.

If the candidate is enrolled as a full-time student, the courses must be passed in one year. Part-time enrolment requires the approval of the Dean of Science, and a part-time student must follow a programme of study within time limits determined by the Dean of Science following recommendations of the Head of Department.

Notes:

1. With the approval of the Head of the Department of Geological Sciences, one of the courses ENGE 471-486 may be replaced by one other ENGE course.
2. With the approval of the Head of the Department of Geological Sciences, up to two courses from GEOL 473-489 may replace up to two of the optional courses, or one full year course from another subject may replace two of the optional courses.
3. The time limit for a candidate studying part-time shall normally be two years.

3. (a) A candidate who fails any of the courses, or who otherwise does not attain a standard satisfactory to the Dean of Science, shall not be permitted to repeat any of those courses, or offer any other course in their place.
- (b) In the case of a candidate who fails no more than 0.25 EFTS of the diploma programme, the Dean of Science, on the advice of the Head of Department, may recommend a pass in the

diploma as a whole, provided the candidate has achieved a grade average of at least B- in the diploma programme as a whole, including any failed courses.

- (c) A candidate who fails more than 0.25 EFTS of the diploma programme, or who failed no more than 0.25 EFTS but was not offered a pass in the diploma as a whole under Regulation 3(b), will be awarded a Certificate of Proficiency for each course passed.
- (d) Notwithstanding 3(a), 3(b) and 3(c), a candidate who qualifies for an aegrotat award in some or all of his or her courses (see General Course and Examination Regulation H) may elect: either:
 - i. to accept for the courses affected the grades recommended by the examiners under that Regulation; or
 - ii. to present all or some of those courses once at a subsequent examination; and his or her eligibility for Distinction shall not be affected.

4. The Postgraduate Diploma in Engineering Geology may be awarded with Distinction or Merit.

Note: The award of Distinction indicates a grade average in the range A- to A+; the award of merit indicates a grade average of B+.

5. (b) *

- iii. be admitted ad eundem statum as entitled to enrol for the Postgraduate Diploma in Science.
- (b) A candidate shall have met the prerequisites prescribed in the Schedule to these Regulations.
- (c) Every candidate for the diploma shall have been approved as a candidate by the Dean of Science.

3.

- (a) The programme for the Diploma shall consist of courses as laid down in the Prescriptions for the subject, to be passed in one year unless in a particular case the Dean of Science resolves otherwise.
- (b) With the approval of the Heads of Departments/Schools, a candidate may replace courses up to 60 points with 400-level courses prescribed for other subjects.

4.

- (a) A candidate who fails any of the courses, or who otherwise does not attain a standard satisfactory to the Dean of Postgraduate Studies shall not be permitted to repeat any of those courses, or offer any other course in their place.
- (b) In the case of a candidate who fails no more than 0.25 EFTS of the diploma programme, the Dean of Science, on the advice of the Head of Department/School concerned, may recommend a pass in the diploma as a whole, provided the candidate has achieved a grade average of at least B- in the diploma programme as a whole, including any failed courses.
- (c) A candidate who fails more than 0.25 EFTS of the diploma programme, or who failed no more than 0.25 EFTS but was not offered a pass in the diploma as a whole under Regulation 4(b), will be awarded a Certificate of Proficiency for each course passed.
- (d) Notwithstanding 4(a), 4(b) and 4(c), a candidate who qualifies for an aegrotat award, in some or all of the courses (see General Course and Examination Regulation H) may elect either:

- i. to accept for the courses affected the grades recommended by the examiners under that Regulation;
- ii. to present all or some of those courses once at a subsequent examination.

5.

If the courses passed for the Diploma also satisfy the requirements for Part I of the MSc, and if the candidate meets the standard required by the department for entry to MSc Part II, then, subject to the Admission Regulations and with the approval of the Dean of Science, a candidate may elect either:

- i. to have the courses transferred to the Degree of Master of Science in lieu of being awarded the Diploma;
- ii. to enter for the Degree of Master of Science under Regulation 2(a)(iv) if the Diploma has been awarded.

6.

A candidate who has successfully completed Part I of the Degree of Master of Science may have this part of the degree programme credited towards a Postgraduate Diploma in Science instead of the Degree of Master of Science.

7.

Where a candidate for the Degree of Master of Science does not attain a satisfactory standard in the Part I examination, but does fulfil the requirements for the Postgraduate Diploma in Science, the Dean of Science, on the advice of the examiners, may recommend the award of the Postgraduate Diploma in Science.

(b) 34

With the approval of the Head of Department, up to two courses may be replaced by appropriate courses from another subject. *Note: The choice of courses is subject to the approval of the Head of Department.*

P: 56 points in 300-level ASTR or PHYS courses approved by the Head of Department.

Honours 400-level courses with a total EFTS value of at least the same from another subject.

P: 56 points at 300-level in the same subject.

Courses totalling at least 1.0 EFTS as for Biochemistry honours, selected with the approval of the Programme Co-ordinator. Courses normally selected from BCHM 401 (BIOL 436), BCHM 403 (BIOL 435), BCHM 405 (BIOL 434), BCHM 406 (BIOL 430), BCHM 410 (CHEM 405), BCHM 411 (CHEM 411), BCHM 412 (CHEM 412). Other suitable courses include: BCHM 407–409, BIOL 431–432, BIOL 451, BIOL 491, CHEM 402, CHEM 408.

P: 84 points in 300-level courses: 70 points from BCHM 301 (BIOL 331), BCHM 302 (CHEM 325) and BCHM 381; and additional points normally from CHEM 321, CHEM 322, CHEM 324, CHEM 362, CHEM 381, BIOL 313, BIOL 330, BIOL 351 or BIOL 352.

Four courses. BIOL 491 plus at least two other courses selected from BIOL 430–435, BIOL 453, BIOL 492, BIOL 493. The fourth course should be selected with the approval of the School of Biological Sciences Fourth Year Coordinator.

P: (1) BIOL 252 or BIOL 254 and BIOL 255; and
(2) BIOL 352; and
(3) one course selected from BIOL 313, BIOL 330, BIOL 331.

Note: Students will normally be expected to take BIOL 309.

Four courses. At least three courses are to be selected from BIOL 430–436, BIOL 491, BIOL 493. The fourth course should be selected with the approval of the School of Biological Sciences Fourth Year Coordinator.

P: Three courses from BCHM 301, BIOL 313, BIOL 330, BIOL 331, BIOL 351, BIOL 352.

Note: Students will normally be expected to take BIOL 309.

Eight courses chosen from CHEM 401-416, plus a project report on practical work. *Note: With the approval of the Head of Department, up to two of the courses CHEM 401-416 may be replaced by*

Requirements

Four courses chosen from GEOG 401–420, with approval of the Head of Department. Enrolment in GEOG 420 Research Project is recommended. *Note: Not all courses will be offered in any one year.*

P: Students will normally be expected to:

- (1) either have passed 84–90 points in 300-level courses approved by the Head of Department, including GEOG 309 and at least 28–30 other points in 300-level Geography courses; or
- (2) to have completed 112–120 points at 300-level of which 56–60 points are in upper-level

Eight courses from PHIL 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 463, 464, 467, 468, 469, 470, 471, 472, 474.

P: 56 points at 300-level in the same subject.

EITHER: PHYS 480 and five courses chosen from PHYS 401–460, including at least three courses from PHYS 401–440.

OR: Eight courses chosen from PHYS 401–460, including at least five courses from PHYS 401–440.

Not all courses may be offered in any one year. With the approval of the Head of Department, up to two courses may be replaced by appropriate courses from another subject. *Note: The choice of courses is subject to the approval of the Head of Department.*

P: 56 points in 300-level PHYS courses approved by the Head of Department.

Four courses to be selected, with the approval of the School of Biological Sciences Fourth Year Coordinator, from BIOL 421, BIOL 430–432, BIOL 434–436, BIOL 453, BIOL 471–474, BIOL 476, BIOL 478, BIOL 479, BIOL 490–493.

P: 60 points from 300-level BIOL courses.

Note: Students will normally be expected to take BIOL 309.

Four full courses (or their half-course equivalents) selected with the approval of the Head of Department from PSYC 401–474. One PSYC 300-level course may be replaced by

PSYC 300-level course approved by the Head of Department.

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