

SCHOOL OF LIFE SCIENCES (Westville campus)
RULES AND GUIDELINES FOR DEGREES IN THE SCHOOL - 2020

IMPORTANT NOTICE 1

Some modules and qualifications are restricted (pls see notice 2. Below).

BIOC + BICE and GENT + CHEM major combinations are not advised due to Time Table clashes at Level 2 and Level 3, which means that the degree will only be completed after 8 semesters. This also applies to the online delivery of modules, as synchronous

IMPORTANT NOTICE 2

Change of qualification to MICROBIOLOGY/BIOCHEMISTRY/GENETICS Majors and MARINE BIOLOGY Programme.

THIS IS STRONGLY DISCOURAGED FOR 2020 SEMESTER 2.

REGISTRATION PROCESSES FOR SEMESTER 2, 2020

This information has been placed on the College website and can be accessed at <https://caes.ukzn.ac.za/registration-semester-2/>

There are separate processes for students with term decisions (orange, red) and student in good standing (green).

Please follow these closely as no correspondence will be responded to if sent to the wrong email address.

RULES AND GUIDELINES FOR DEGREES IN THE SCHOOL

This booklet is a registration guide for new and returning students of the School of Life Sciences, UKZN, and provides systematic information about the qualifications offered by the School, the rules of

combinations for the majors and focussed programmes, and various other information that may be useful to you during registration.

You can find all relevant information regarding your qualification and rules of your degree in the 2020 handbook of the College of Agriculture Engineering and Science or visit the website - http://saa.ukzn.ac.za/Forms_proce/Handbooks.aspx to download an electronic copy of the Handbook.

1. QUALIFICATIONS

The qualification for which you are registered is a Bachelor of Science (BSc). This, in turn, can be structured in two ways: either a BSc with major(s) or a BSc in a focused programme, not both.

In our School, on the Westville campus, the majors on offer are Biochemistry, Cellular Biology, Genetics and Microbiology, and the focused programmes are Biological Sciences and Marine Biology.

(Please note that 'LES' is not a qualification so please ensure that you write your major(s) or programme in all your forms).

Each qualification has a curriculum that is comprised of modules (courses) which are equal to 16 credits (16C). Some modules are compulsory (core) to the qualification, while others are electives, meaning that you can select from a specified list of module options. Some modules have prerequisite requirements, i.e. a specified mark or a pass in a module or any other condition, which must be met before you are allowed to register for the module. *(Please see below)*

2. GENERAL RULES FOR ALL THE BSc QUALIFICATIONS

Rule AES-BS1

The qualification requires that you must pass a set of modules totalling 384 credits, subject to the following conditions:

Level 1: 96C (minimum) to 160C (maximum) – of these, 16C can be credits from another College and 16C must be ZULN101 (unless isiZulu was taken as a Grade 12 subject).

Level 2: 96C (minimum) to 128C (maximum)

Level 3: 128C

(As a module is 16C, each degree comprises 24 modules, 8 per year).

Rule AES-B5

- a) The normal load per semester is 64C (four modules).
- b) In the first two semesters of registration, students are not allowed to do more than four modules (64C) per semester. After that, they can register for up to five modules (80C) per semester, provided that they are in good academic standing ('on GREEN').
- c) Students are not allowed to register for modules that clash on the timetable, even if they have exemption for the practical classes in one of them. If there is a timetable clash, the student will have to do the 'lower level' module (and not the higher-level module).

- d) Students must register for all outstanding compulsory (core) modules at the level of the lowest academic year not completed at the time of registration.
- e) Students can only register for level 2 modules if they have been previous registered for two semesters and obtained 64C of which 32C are core to their major or programme.
- f) Students can only register for level 3 modules if they have previous registered for four semesters and obtained 144C of which 32C are at level 2 and have passed all level 1 modules core to their major or programme.
- g) In exceptional circumstances, the Academic Leader for Teaching and Learning (ALT&L) in the School may grant a concession to relax one of these rules, as per 7 below.

3. RULES OF COMBINATION FOR MAJORS

Generally, students opt to obtain their degree with two majors. However, it is also possible to obtain a degree with only one major, in which case 64C at level 1 and 32C at level 2 must be as per the rules of combination of the major. As Rule AES-BS1 states that 128 C must be passed at level 3, the other 64C must also be at level 3 from modules from another discipline for which the student has obtained the specified prerequisites.

Please note: BIOC + BICE and GENT + CHEM major combinations are **not advised** due to Timetable clashes at Level 2 and Level 3, which means that the degree will only be completed after 8 semesters.

4. CORE MODULES FOR MAJORS

Biochemistry

YEAR 1	BIOL 101 (Sem 1)	CHEM 110 (Sem 1)	MATH 150 (Sem 1)	PHYS 131 (Sem 1)
	STAT 130 (Sem 1/2)	CHEM 120 (Sem 2)	ZULN 101 (Sem 1/2)	
YEAR 2	BIOC 201 (Sem 1)	CHEM 220 (Sem 1)		
	BIOC 202 (Sem 2)	RDNA 202 (Sem 2)		
YEAR 3	BIOC 307 (Sem 1)	BIOC 315 (Sem 1)		
	BIOC 308 (Sem 2)	BIOC 316 (Sem 2)		

Cellular Biology (Westville)

YEAR 1	BIOL 101 (Sem 1)	CHEM 110 (Sem 1)	MATH 150 (Sem 1)	PHYS 131 (Sem 1)
	BIOL 102 (Sem 2)	CHEM 120 (Sem 2)	STAT 130 (Sem 1/2)	ZULN 101 (Sem 1/2)
YEAR 2	BIOC 201 <i>or</i> BIOC 203			
	RDNA 202 (Sem 2)	BIOL 234 (Sem 2)		
YEAR 3	BIOL 345 (Sem 1)	BIOL 344 (Sem 1) <i>or</i> BIOL 347 (Sem 1) <i>or</i> BIOL 304 (Sem 2)		
	BIOL 316 (Sem 2)	BIOL 350 (Sem 2)		

Genetics

YEAR 1	BIOL 101 (Sem 1)	CHEM 110 (Sem 1)	MATH 150 (Sem 1)	PHYS 131 (Sem 1)
	BIOL 102 (Sem 2)	CHEM 120 (Sem 2)	STAT 130 (Sem 1/2)	ZULN 101 (Sem 1/2)
YEAR 2	GENE 240 (Sem 1)			
	RDNA 202 (Sem 2)	BIOL 200 (Sem 1) <i>or</i> STAT 222 (Sem 2)		
YEAR 3	GENE 310 (Sem 1)	GENE 320 (Sem 1)		
	GENE 330 (Sem 2)	GENE 340 (Sem 2) <i>or</i> BIOL 304 (Sem 2)		

Microbiology

YEAR 1	BIOL 101 (Sem 1)	CHEM 110 (Sem 1)	MATH 150 (Sem 1)	PHYS 131 (Sem 1)
	STAT 130 (Sem 1/2)	CHEM 120 (Sem 2)	ZULN 101 (Sem 1/2)	
YEAR 2	MICR 213 (Sem 1)			
	MICR 215 (Sem 2)	RDNA 202 (Sem 2)		
YEAR 3	MICR 307 (Sem 1)	MICR 311 (Sem 1)		
	MICR 304 (Sem 2)	MICR 306 (Sem 2)		

5. RULES OF COMBINATION FOR FOCUSED PROGRAMMES

Core modules and elective credits

Biological Sciences

YEAR 1	BIOL 101 (Sem 1)	CHEM 110 (Sem 1)	MATH 150 (Sem 1)	PHYS 131 (Sem 1)
	BIOL 102 (Sem 2)	CHEM 120 (Sem 2)	STAT 130 (Sem 2)	ZULN 101 (Sem 2) <i>or</i> Level 1 <i>ELECTIVE</i> (Sem 2)
YEAR 2	BIOL 200 (Sem 1)	BIOL 204 (Sem 1)	GENE 240 (Sem 1)	Level-2 BIOL MODULE (Sem 1)
	RDNA 202 (Sem 2)	Level 1 <i>or</i> Level 2 <i>ELECTIVE</i> (Sem 2)	Level 1 <i>or</i> Level 2 <i>ELECTIVE</i> (Sem 2)	Level-2 BIOL MODULE (Sem 2)
YEAR 3	BIOL 300 (Sem 1)	BIOL 347 (Sem 1)	Level-3 BIOL MODULE (Sem 1)	Level-3 BIOL MODULE (Sem 1)
	BIOL 304 (Sem 2)	BIOL 348 (Sem 2)	BIOL 390 (Sem 1/2)	Level-3 BIOL MODULE (Sem 2)

Marine Biology*

YEAR 1	BIOL 101 (Sem 1)	CHEM 110 (Sem 1)	MATH 150 (Sem 1)	PHYS 131 (Sem 1)
	BIOL 102 (Sem 2)	CHEM 120 (Sem 2)	STAT 130 (Sem 2)	ZULN 101 (Sem 2) <i>or</i> Level 1 <i>ELECTIVE</i> (Sem 2)
YEAR 2	BIOL 200 (Sem 1)	BIOL 204 (Sem 1)	BIOL 214 (Sem 1)	Level 1 <i>or</i> Level 2 <i>ELECTIVE</i> (Sem 1)
	RDNA 202 (Sem 2)	BIOL 231 (Sem 2)	BIOL 210 (Sem 2)	ENVS 211 (Sem 2)
YEAR 3	BIOL 305 (Sem 1)	BIOL 341 (Sem 1)	BIOL 3XX (Sem 1)	ENVS 316 (Sem 1)
	BIOL 304 (Sem 2)	BIOL 342 (Sem 2)	BIOL 343 (Sem 2)	BIOL 391 (Sem 2)

* Level 3 module 3XX (Practical Research Skills in Marine Biology; Sem 1) to be confirmed later.

6. LIST OF MODULES, SCHOOL OF LIFE SCIENCES (WESTVILLE)

Module	Name	Semester		Pre-requisite
BIOL 101	Smaller Side of Life	1		None
BIOL 102	Life on Earth		2	None
BIOL 103	Introductory Biology for Health Sciences	1		None
BIOL 195	Smaller Side of Life (Augmented)	1		None
BIOL 196	Life on Earth (Augmented)		2	None
BIOL 200	Biological Sciences Toolkit	1		64 C @ Level 1; BIOL 101; BIOL 102 & at least 40% in STAT 130
BIOL 204	Plant & Animal Ecophysiology	1		64 C @ Level 1; BIOL 101 & BIOL 102
BIOL 212	Angiosperm Evolution & Diversification	1		64 C @ Level 1 & BIOL 102
BIOL 214	Invertebrate Diversity & Ecology	1		64 C @ Level 1 & BIOL 102
BIOL 210	Vertebrate Biology and Ecology		2	BIOL 102 & STAT 130
BIOL 231	Marine Environment		2	64 C @ Level 1; MATH 150 & BIOL 102
BIOL233	Immunology			64 C @ Level 1; BIOL 101 & BIOL 102
BIOL 234	Cytology & Cellular Biology		2	64 C @ Level 1 & BIOL 101; BIOL 102
BIOL 300	Professional Communication for Biologists	1		64 C @ Level 2 including 32 C BIOL at level 2 & (STAT 130 <i>or</i> BIOL 200)
BIOL 304	Evolution & Systematics		2	64 C @ Level 2; BIOL 200 & (RDNA 202 <i>or</i> GENE 240)
BIOL 305	Population & Community Ecology	1		64 C @ Level 2 & BIOL 200
BIOL310				Only oN offer in 2021
BIOL 316	Animal & Plant Biotechnology		2	64 C @ Level 2 incl 32C BIOL; RDNA 202 & (STAT 130 <i>or</i> BIOL 200)
BIOL 341	Marine Systems	1		64 C @ Level 2 incl 32C BIOL & (STAT 130 <i>or</i> BIOL 200) May be restricted to students registered for Marine Biology and Biological Sciences*
BIOL 342	Marine Ecophysiology		2	64 C @ Level 2 incl 32C BIOL; BIOL 204 & (STAT 130 <i>or</i> BIOL 200)
BIOL 343	Applied Marine Biology		2	64 C @ Level 2; BIOL 200 & BIOL 231 May be restricted to students registered for Marine Biology and Biological Sciences*
BIOL 3XX	Practical research skills in Marine Biology	1		64 C @ Level 2 incl 32C BIOL; BIOL 200 & BIOL 231. May be restricted to students registered for Marine Biology and Biological Sciences*
BIOL 344	Parasites & People	1		64 C @ Level 2; BIOL 101 & BIOL 102
BIOL 345	Functional Cell Architecture	1		64 C @ Level 2 & RDNA 202
BIOL 347	Pollution & Remedial Biology	1		64 C @ Level 2 incl 32C BIOL & (STAT 130 <i>or</i> BIOL 200)
BIOL 348	Applied Plant Physiology		2	64 C @ Level 2 incl 32C BIOL; (BIOL 200 <i>or</i> STAT 222) & BIOL 204
BIOL 349	Seeds & Vegetative Propagation	1		64C at Level 2 including 32C BIOL & (STAT 130 <i>or</i> BIOL 200)

BIOL 350	Developmental Biology		2	64 C @ Level 2 incl 32C BIOL; RDNA 202 & (STAT 130 <i>or</i> BIOL 200)
BIOL 390	Biology/Ecology Research Project	1	2	96 C @ Level 2 including 48 C BIOL & (STAT 130 <i>or</i> BIOL 200)
BIOL 391	Marine Biology Research Project	1	2	96 C @ Level 2 including 48 C BIOL & (STAT 130 <i>or</i> BIOL 200)
BIMI 200	Biochemistry for Optometry	1		(BIOL 101 <i>or</i> BIOL 103) & CHEM 110
BIOC 201	Introduction to Biomolecules	1		(BIMI 120 <i>or</i> BIOL 101); CHEM 110 & CHEM 120 May be restricted to students registered for qualifications for which this module is core or core elective*
BIOC 202	Bioenergetics and Integrated Metabolism		2	(BIMI 120 <i>or</i> BIOL 101); CHEM 110 & CHEM 120 May be restricted to students registered for qualifications for which this module is core or core elective*
BIOC 203	Biochemistry for Biologists	1		64 C @ Level 1; CHEM 110; BIOL 101 & BIOL 102
BIOC 307	RNA Chemistry for Gene Expression	1		40% in CHEM 220; BIOC 201; BIOC 202 & RDNA 202
BIOC 308	Physiological Biochemistry		2	BIOC 201; BIOC 202; CHEM 220 & RDNA 202
BIOC 315	DNA Chemistry	1		40% in CHEM 220; BIOC 201; (BIOC 202 <i>or</i> BIOC 212) & RDNA 202
BIOC 316	Immune and Protein Chemistry		2	BIOC 201; (BIOC 202 <i>or</i> BIOC 212); CHEM 220 & RDNA 202
GENE 240	Introductory Genetics	1		(BIOL 101 <i>or</i> BIMI 120) & MATH 150
GENE 310	Population and Quantitative Genetics	1		GENE 240 & (STAT 222 <i>or</i> BIOL 200)
GENE 320	Bioinformatics	1		GENE 240 <i>or</i> RDNA 202
GENE 330	Genomics and Molecular Diagnostics		2	GENE 240 & RDNA 202
GENE 340	Integrated Human Genetics		2	GENE 240
MICR 213	Bacteriology	1		CHEM 110 & (BIMI 120 <i>or</i> BIOL 101) May be restricted to students registered for qualifications for which this module is core or core elective*
MICR 215	Introduction to Fungi and Viruses		2	(BIOL 101 <i>or</i> BIMI 120) & MICR 213; co-requisite RDNA 202 May be restricted to students registered for qualifications for which this module is core or core elective*
MICR 304	Microbial Processing		2	MICR 213 & RDNA 202
MICR 306	Advanced Applications of Fungi and Viruses		2	MICR 215 & RDNA 202
MICR 307	Environmental Microbial Biotechnology	1		MICR 213
MICR 311	Advanced Bacteriology	1		MICR 213
RDNA 202	Molecular DNA Technology		2	(BIOL 101 <i>or</i> BIMI 120); CHEM 110 & CHEM 120 May be restricted to students registered for qualifications for which this module is core or core elective*

For more information on the modules (e.g. content, DP & other requirements), please consult the 2020 AES College Handbook on http://saa.ukzn.ac.za/Forms_proce/Handbooks.aspx

7. OTHER IMPORTANT INFORMATION.

Please note:

- ZULN101 must be passed to complete the degree (rule BR9) UNLESS competent through prior learning, in which case, must get exemption and substitute ZULN101 with another 16 credit elective (rule BR9).
- You are strongly advised to process all required forms before the semester starts.

Changes in the registration of modules

After the initial registration and within the stipulated date, students may withdraw from some modules and register for others, provided that they are not core modules or modules that impact on progress of the degree. Use a change of curriculum form and follow the registration procedures.

Extended DP

Not available in 2020 semester 2 due to differences in contact (2019) and online (2020) offerings.

Concessions

In exceptional cases, the Academic Leader for Teaching and Learning (AL: T&L) may allow the relaxing of an element of Rule AES-B5. Applications must be submitted at the start of the relevant semester.

Criteria:

- a) To take a module without having met its prerequisite(s):

This is usually only awarded in the last three semesters before completion of the degree; student must have attempted the module before and obtained at least 40% in the prerequisite module; the concession promotes progression (i.e. 'saves a semester'); student is not on Probation; student will not be registered for more than 64C; there is no timetable clash.

(Please note that you still need to pass the prerequisites).

- b) Relaxing of other components of the rule: Must make academic sense and promote academic progression.

Procedures:

Download and email the appropriate form as outlined above.

Practical exemptions

Students who are repeating a module may apply for exemptions from repeating the practical classes, provided that they meet the criteria below. However, please note that no concession will be given if there has been a change in the content of the practical classes.

Criteria:

Previous class mark $\geq 50\%$ AND practical mark $\geq 60\%$ AND practical test mark $\geq 60\%$ (if applicable for the module).

Procedures:

There is no need to apply. You will be pre-screened based on the 2019 results and will be informed by the module administrator if you are exempted from practicals.

Medical and Death certificates

As per UKZN rules, **only** medical or death of close family member are acceptable reasons for missing compulsory activities. Medical and Death certificates must be submitted (**only** to the admin office of the School) within one week of the missed practical or test. Students admitted to medical facilities need to submit a medical certificate on the first day after being discharged. All medical certificates will be confirmed for authenticity (see below).

(Please note that fraudulent medical certificates and other reports will be forwarded to the university proctor for disciplinary action. This is considered a serious offence requiring university action.)

Mark changes/corrections to tests and practical reports

These will only be considered within one week of the results having been released to students. It is the student's responsibility to check his/her marks regularly on Student Central. The School will not consider any late requests for mark changes or corrections. The University policy for changes to exam marks will be strictly applied.

Change of qualifications – this applies to students at Level 1, Level 2 and Level 3

This pertains to students wishing to transfer from other Schools into SLS. This is discouraged for 2020 semester 2, and will depend on having a valid curriculum for the semester and on module restrictions.

Procedures:

Download and email the appropriate form as outlined above.

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