

## HONOURS DEGREES

### AES-H1 Applicability of Rules

The following rules apply to the following Honours qualifications offered by the College.

Bachelor of Agriculture Honours	BAgricHons
Bachelor of Agricultural Management Honours	BAgricMgmtHons
Bachelor of Science Honours	BScHons
Bachelor of Science Honours in Construction Management	BScHons(CM)
Bachelor of Science Honours in Quantity Surveying	BScHons(QS)

### AES-H2 Eligibility

Refer to General Academic Rule HR2. For selection purposes a credit weighted average of the relevant Level-3 modules will be taken into account.

### AES-H3 Structure of the Degree

- (a) For a BAgricHons, BAgricMgmtHons or BScHons, in order to complete the degree, a student shall obtain not less than 128 credits. At least 32 credits must be a research project.
- (b) For a BScPropDevHons(CM) or a BScPropDevHons(QS), in order to complete the degree, a student shall obtain not less than 144 credits at Level 7.

### AES-H4 Project Modules

The General Academic Rule HR6 applies to the following project modules, which may not be repeated:

**BScHons:** AGPS790, ANSI792, BIOC702, BIOL790, CHEM791, CHEM793, COMP700, EART730, ENV5730, GEOG730, GENE701, GEOL707, HYDR730, MATH798, MATH799, MICR710, PHYS709, PHYS735, PHYS760, PHYS761, PPTH750, SSCI793, STAT795.

**BAgricHons:** RRMG750

**BAgricMgmtHons:** AGPS790, AMAN790, ANSI792

**BScPropDevHons:** ENPD7RR.

## Degree of Bachelor of Science (Honours)

### AES-H5 Bachelor of Science Honours - Combinations

The following lists give the programmes of study within the degree of Bachelor of Science Honours. All elective modules must be chosen in accordance with Rule AES-H3 and require approval by the Dean and Head of School.

#### 1. Applied Mathematics (Pietermaritzburg, Westville)

*Prerequisites:* Completion of a major or programme in Applied Mathematics or equivalent approved by the Dean and Head of School.

##### a. Pietermaritzburg

*Core:* MATH798(32).

*Electives:* 96C from MATH730(16), 731(16), 732(16), 733(16), 734(16), 740(16), 741(16), 755(16), 765(16), 785(16) or other modules approved by the School.

##### b. Westville

*Core:* MATH798(32).

*Electives:* 96C from Level-7 MATH. (Up to 32 of these credits may be replaced by Level-7 credits outside the School, approved by the School.)

#### 2. Biochemistry

*Prerequisites:* Completion of a major or programme in Biochemistry.

##### a. Pietermaritzburg

*Core:* BIOC701(16), 702(48), 703(16), 705(16), 707(16), 710(16).

##### b. Westville

*Core:* BIOC702(48), 708(16), 709(16), 711(16), 713(16), 715(16).

### 3. Biological Sciences (Pietermaritzburg, Westville)

*Prerequisites:* Completion of a major or programme in the Biological Sciences. Note that acceptance into the programme may depend on availability of places.

#### a. Pietermaritzburg

*Core:* BIOL701(16), 790(48).

*Electives:* 48C from BIOL722(16), 723(16), 724(16), 726(16), 733(16), 734(16), 763(16), 764(16) and a further 16C chosen freely from Level-7 modules within the College.

#### b. Westville

*Core:* BIOL701(16), 790(48).

*Electives:* 48C from BIOL712(16), 715(16), 716(16), 735(16), 738(16), 742(16), 747(16), 751(16), 884(16), GENE751(16), 752(16) and a further 16C chosen freely from Level-7 modules within the School.

### 4. Biometry (Pietermaritzburg)

*Prerequisites:* BMET314(8), BMET316(8) and completion of a major in Statistics.

*Core:* STAT714(16), 730(16), 740(16), 795(32). The project (STAT795) must be in Biometry.

*Electives:* 48C from STAT710(16), 711(16), 719(16), 723(16), 752(8), 753(16), 754(16).

### 5. Chemistry (Pietermaritzburg, Westville)

*Prerequisites:* Completion of a major or programme in Chemistry.

#### a. Pietermaritzburg

*Core:* CHEM733(16), 743(16), 753(8), 763(32), 773(8), 793(48).

#### b. Westville

*Core:* CHEM751(16), 761(48), 781(32), 791(32).

### 6. Computer Science (Pietermaritzburg, Westville)

*Prerequisites:* Completion of a major or programme in Computer Science. Note that acceptance into the programme may depend on the availability of places.

*Core:* COMP700(32).

*Electives:* 64C Computer Science at Level 7 plus 32C approved by the School.

### 7. Crop Science (Pietermaritzburg)

*Prerequisites:* Completion of the BSc programme in Crop and Horticultural Sciences or an appropriate major.

*Core:* AGPS701(8), 710(16), 712(16), 714(16), 715(16), 790(32), 791(8).

*Electives:* 16C at Level 7 or 8 approved by the School.

### 8. Ecological Sciences (Rangeland & Wildlife Conservation Stream) (Pietermaritzburg)

*Prerequisites:* Completion of a major or programme in Ecological Sciences or Grassland Science. Note that acceptance into the programme may depend on availability of places.

*Core:* BIOL701(16), 790(48).

*Electives:* 32C from (BIOL723(16), 724(16), 764(16)), 16C from (BIOL722(16), 723(16), 724(16), 726(16), 764(16)) and a further 16C chosen from relevant Level-7 modules within the College approved by the School.

### 9. Environmental Earth Science (Pietermaritzburg)

This Programme will not be offered in 2017.

This is a *multidisciplinary* qualification. Students registering for 48 credits or more in a single discipline (excluding the research project) should register in that discipline.

*Prerequisites:* Completion of a BSc degree with a major or programme in Environmental Earth Sciences, or equivalent. Acceptance is dependent on the availability of places.

*Core:* ENVS700(16), EART730(48)

*Electives:* 64 credits chosen from AMET, ENVS, HYDR or SSCI modules and approved by the School.

### 10. Environmental Science (Pietermaritzburg, Westville)

This is a *multidisciplinary qualification*. Students registering for 48 credits or more in a single discipline (excluding the research project) should register in the discipline from which the majority of the course credits are derived.

#### a. Pietermaritzburg

*Prerequisites:* Completion of BSc degree with a major or programme in Environmental Science, Biology, Geography, Geology, Hydrology or Soil Science. Acceptance is dependent on the availability of places.

*Core:* ENVS700(16), 730(48).

*Electives:* 64C chosen from Level 7 AMET, BIOL, ENVS, HYDR, or SSCI approved by the School including a maximum of 16C from GEOG approved by the School.

#### b. Westville

*Prerequisites:* Completion of a BSc degree with a major or programme in Biological Sciences, Environmental Science, Geography or Geology. Acceptance is dependent on the availability of places.

*Core:* ENVS700(16), 730(48).

*Electives:* 64C chosen from Level 7 BIOL, ENVS, GEOL or other modules from related disciplines approved by the School including a maximum of 16C from GEOG approved by the School

### 11. Forensic Genetics (Westville)

*Prerequisites:* Completion of a major in Biochemistry, Cellular Biology, Genetics, Microbiology or programme in Biological Sciences, or similar qualification. At least one 16 credit Statistics module and one 16 credit Molecular Biology/Genetics module at levels 2 and 3 is required.

*Core:* Semester 1 - BIOL701 (16), GENE751 (16), GENE753 (16); Semester 2 - GENE752 (16) (prerequisite GENE751), GENE755 (16) (prerequisite GENE751; corequisite GENE752); Semesters 1 and 2 - GENE756 (48).

### 12. Genetics (Pietermaritzburg, Westville)

*Prerequisites:* Completion of a major or programme in Genetics.

**a. Pietermaritzburg**

*Core:* GENE701(48), 713(16), 714(16), 715(16), 716(16).

*Electives:* 16C from: BIOL724(16), 733(16), GENE718(16), approved by the School.

**b. Westville**

*Core:* GENE701(48), 80C from [BIOC715(16) or MICR701(16)], GENE715(16), [GENE703(16) or BIOL715(16)], GENE716(16), GENE719(16), GENE751(16), GENE752(16).

**13. Geography & Environmental Management (Pietermaritzburg, Howard College)**

*Prerequisites:* Completion of a major or programme in Geography. Acceptance is dependent on the availability of places.

*Core:* GEOG700(16), 730(48)

**a. Howard College:**

At least 48C from GEOG722(16), 733(16); 735(16), 791(16), ENVS712(16), 751(16). Up to 16C approved by the School from related disciplines.

Note: Some of these modules may be taught on Westville Campus.

**b. Pietermaritzburg:**

At least 48C from GEOG735(16), 744(16), 791(16), ENVS751(16), 712(16). Up to 16C approved by the School from related disciplines.

**14. Geology (Westville)**

*Prerequisites:* Completion of a major or programme in Geology. Limitations on student numbers may be imposed by available resources.

*Core:* GEOL706(16), 707(32) and, depending on the specialisation, either GEOL705(16) or GEOL711(16).

*Electives:* 80C from GEOL701(16), 702(16), 703(16), 705(16), 708(16), 710(16), 711(16), 712(16), 713(16), 714(16), 715(16), 716(16), 717(16) or up to 16C of electives at Level 7 from related disciplines as approved by the School.

**15 Grassland Science (Pietermaritzburg)**

This Programme will not be offered in 2017

*Pre-requisite:* Major in Biology, Ecology or Environmental Science.

*Core:* BIOL722(16), BIOL723(16), ENVS700(16), ENVS730(48).

*Electives:* 32C from AGPS710(16), AGPS715(16), BIOL726(16), Level-7 Elective(16).

**16. Horticultural Science (Pietermaritzburg)**

*Prerequisites:* Completion of the BSc programme in Crop and Horticultural Sciences or an appropriate major.

*Core:* AGPS701(8), 732(16), 790(32), 791(8).

*Electives:* 64C from AGPS712(16), 716(16), 733(16), 734(16) or up to 16C of other Level-7 or -8 modules may be selected and approved by the School.

**17. Hydrology (Pietermaritzburg)**

*Prerequisites:* Completion of a major or programme in Hydrology.

*Core:* HYDR710(16), 720(16), 725(16), 730(48), 795(32).

**18. Marine Biology (Westville)**

*Prerequisites:* Completion of a major or programme in Biological Sciences.. Note that acceptance into the programme may depend on availability of places.

*Core:* BIOL701(16), 782(16), 784(16), 791(48), 884(16).

*Electives:* 16C from BIOL715(16), 735(16), ENVS720(16).

**19. Mathematics (Pietermaritzburg, Westville)**

*Prerequisites:* Completion of a major or programme in Mathematics.

**a. Pietermaritzburg**

*Core:* MATH710(16), 721(16), 751(16), 799(32).

*Electives:* 48C from MATH730(16), 740(16), 762(16), 763(16) or other modules from Statistics, Applied Mathematics or Computer Science, approved by the School.

**b. Westville**

*Core:* MATH701(16), 785(16), 799(32).

*Electives:* 64C from Level-7 MATH. (Up to 32 of these credits may be replaced by Level-7 credits outside the School, approved by the School.)

**20. Microbiology (Pietermaritzburg, Westville)**

*Prerequisites:* Completion of a major or programme in Microbiology.

**a. Pietermaritzburg**

*Core:* MICR710(48), 721(16), 722(16), 723(16), 724(16).

*Electives:* 16C chosen at Level 7 or 8 approved by the School.

**b. Westville**

*Core:* MICR701(16), 710(48), 711(16), 713(16), 719(16).

*Electives:* 16C from BIOL715, GENE703, MICR712.

**21. Physics (Pietermaritzburg, Westville)****a. Pietermaritzburg**

*Prerequisites:* Completion of a major or programme in Physics.

*Core:* PHYS735(32), 741(16), 791(16), 792(16).

*Electives:* PHYS721(16), PHYS752(32), or up to 32C of modules from within the School or from another school, approved by the School.

**b. Westville**

*Prerequisites:* Completion of a major or programme in Physics.

*Core:* PHYS701(16), 702(16), 703(16), 735(32), 736(16).

*Electives:* 32C chosen from PHYS737(16), 738(16), 739(16).

Up to 32C of the above Electives may be replaced by modules from another school, subject to the approval by both Schools.

**c. Westville (NASSP specialisation)**

*Prerequisites:* Completion of a major or programme in Physics.

*Core:* PHYS701(16), 724(16), 735(32), 736(16); MATH732(16).

*Electives:* 32C chosen from PHYS722(16), 723(16), 725(16), MATH703(16).

Up to 32C of the above Electives may be replaced by modules from another programme within the School or another School, subject to the approval by both Schools and NASSP.

## **22. Plant Pathology (Pietermaritzburg)**

*Prerequisites:* Completion of a major or programme in Plant Pathology.

*Core:* PPTH730(16), 745(16), 750(48), 785(8).

*Electives:* PPTH713(16) or 723(16) plus 24 other credits approved by the School.

## **23. Soil Science (Pietermaritzburg)**

*Prerequisites:* Completion of a major or programme in Soil Science.

*Core:* SSCI730(16), 750(16), 792(16), 793(48).

*Electives:* 32C at Level 7 or 8 approved by the School.

## **24. Statistics (Pietermaritzburg, Westville)**

*Prerequisites:* Completion of a major or programme in Statistics.

### **a. Pietermaritzburg**

*Core:* STAT714(16), 730(16), 740(16), 795(32).

*Electives:* 48C from STAT710(16), 711(16), 719(16), 723(16), 752(16), 753(16), 754(16), or up to 32C approved by School.

### **b. Westville**

*Core:* STAT795(32).

*Electives:* 96C from STAT711(16), 712(16), 713(16), 714(16), 716(16), 717(16), 718(16), 719(16), 721(16), 723 (16), 741(16), 751(16) or up to 32C from another discipline approved by the School.