

1. Agricultural Engineering

YEAR 1

Semester 1		Semester 2	
CHEM163 Chemistry & Society 1 (8) or CHEM181 Chemistry for Engineers IA (8)		CHEM173 Chemistry & Society 2 (8) or CHEM191 Chemistry for Engineers IB (8)	
ENCH1TC Tech. Comm. for Engineers (8)		ENAG1DE Engineering Design (8) or ENCV1ED Introduction to Civil Design (8)	
ENME1DR Engineering Drawing (8)		ENAG1MT Intro. to Engineering Materials (8) or ENME1EM Intro. to Engineering Materials (8)	
MATH131 Mathematics 1A (Eng) (16)		MATH141 Mathematics 1B (Eng) (16)	
MATH132 Applied Mathematics 1A (Eng) (16)		MATH142 Applied Mathematics 1B (Eng) (16)	
PHYS110 Mech., Optics & Thermal Phys (16) or PHYS151 Engineering Physics 1A (16)		PHYS120 Electromag, Waves & Mod. Phys (16) or PHYS152 Engineering Physics 1B (16)	

YEAR 2

Semester 1		Semester 2	
ENCV2SA Structures 1 (16)		ENCV2FL Fluids 1 (8)	
ENEL2EE Electrical and Electronic Eng (16) or ENAG4EA Elec. Applications for Bio-Systems (8) and ENAG4SE Sustainable Energy for Bio-Systs (8)		ENEL2EN Environmental Engineering (8) or ENV322 Environmental Management (16)	
ENME2TH Thermodynamics 1 (8)		ENCV2SB Structures 2 (16)	
ENSV2SE Surveying Engineering (16)		ENCV2SD Structural Design 1 (16)	
ENCV3G1 Geotechnical Engineering Studies (16)		ENME2DM Design Methods (16)	
		ENME3TH Thermodynamics 2 (8)	
		ENCV1EP Engineering Practice Workshop (DP)	

YEAR 3

Semester 1		Semester 2	
HYDR210 Introduction to Physical Hydrology (16)		AGEC240 Applied Farm Financial Mgmt (8)	
MATH212 Advanced Calculus & Lin. Alg. (16) or MATH238 Mathematics 2A (Eng) (16)		ENAG3SA Structural Analysis & Design (8)	
COMP100 Introduction to Computer Science (16) or ENEL2CM Applied Computer Methods (8) and ENME2CF Computer Fundamentals (8)		STAT130 Introduction to Statistics (16)	
		MATH251 Further Calculus and Intro Analysis (16) or MATH248 Mathematics 2B (Eng) (16)	

24 Credits selected from the following (or as approved by the Dean & Head of School)	24 Credits selected from the following (or as approved by the Dean & Head of School)
ENAG3EI Irrigation Engineering* (16)	ENAG3FE Forest Engineering* (8)
ENAG3FP Principles of Food Processing* (8)	ENAG4AP Advanced Power & Traction* (8)
ENAG3PT Power & Traction* (8)	ENAG4EA Elec. Applications for Bio-Systems* (8)
ENAG3ST Selected Topics (8)	ENAG4EC Env. Control of Biol. Commodities* (8)
ENAG4BM Bio-Production Systems & Mgmt* (16)	ENAG4FE Food Engineering Unit Operations* (8)
	ENAG4SE Sustainable Energy for Bio-Systs* (8)
	ENAG4SW Soil & Water Conservation Eng* (8)
	HYDR322 Environmental Water Quality (8)
	HYDR330 Water Res. Policy, Laws & Institutions (8)

*Denotes modules offered in alternate years.

YEAR 4

Year Modules	
ENAG4BD Bioresources Engineering Design Project	(24)
ENAG4EP ECSA Outcomes Portfolio	(DP)
Semester 1	Semester 2
ENAG3US Undergraduate Seminar (8)	ENAG4VW Vacation Work (DP)
HYDR310 Modelling for Hydrological Design (16)	ZULUN101 Basic isiZulu Language Studies A or Electives (Complementary studies) (16)
ENAG4WS Workshop Course (DP)	
24 Credits selected from the following (or as approved by the Dean & Head of School)	24 Credits selected from the following (or as approved by the Dean & Head of School)
ENAG3EI Irrigation Engineering (16)	ENAG3FE Forest Engineering* (8)
ENAG3FP Principles of Food Processing* (8)	ENAG4AP Advanced Power & Traction* (8)
ENAG3PT Power & Traction* (8)	ENAG4EA Elec. Applications for Bio-Systems* (8)
ENAG4BM Bio-Production Systems & Mgmt* (16)	ENAG4EC Env. Control of Biol. Commodities* (8)
ENAG4ST Selected Topics in Engineering (16)	ENAG4FE Food Engineering Unit Operations* (8)
	ENAG4SE Sustainable Energy for Bio-Systs* (8)
	ENAG4ST Selected Topics in Engineering (16)
	ENAG4SW Soil & Water Conservation Eng* (8)
	HYDR322 Environmental Water Quality (8)
	HYDR324 Applied Hydrology (16)
	HYDR330 Water Res. Policy, Laws & Institutions (8)
16 Credits selected from the following (or as approved by the Dean & Head of School)	16 Credits selected from the following (or as approved by the Dean & Head of School)
AGPS305 Field Crop Management (16)	AGPS732 Postharvest Technology (16)
AGPS307 Orchard Management (16)	COMP102 Computer Programming (16)
SSCI217 Intro. to Soils & the Environment (16)	ENVS211 Geographic Information Systems (16)
	SSCI230 Pedology (16)

* Denotes modules offered in alternate years.