

University of Pretoria Yearbook 2016

Molecular genetics 251 (GTS 251)

Faculty Faculty of Natural and Agricultural Sciences Module credits 12.00 Programmes BSc Information Technology Information and Knowledge Systems BSc Biochemistry BSc Biological Sciences BSc Biotechnology BSc Ecology BSc Ecology BSc Entomology BSc Food Science BSc Genetics BSc Human Genetics BSc Human Physiology BSc Medical Sciences BSc Microbiology BSc Medical Science BSc Microbiology BSc Plant Science BSc Zoology BSc Plant Science BSc Zoology BSc Plant Science BSc Agric Animal Science BScAgric Plant Pathology Service modules Faculty of Engineering, Built Environment and Information Technology Faculty of Education Prerequisites GTS 161 GS Contact time fortnightly practicals, 2 lectures per week Language of tuition English Academic organisation Period of presentation Semester 1	Qualification	Undergraduate
BSC Information Technology Information and Knowledge Systems BSC Biochemistry BSC Biological Sciences BSC Biotechnology BSC Ecology BSC Ecology BSC Entomology BSC Food Science BSC Genetics BSC Human Genetics BSC Human Physiology BSC Human Physiology BSC Human Physiology BSC Medical Sciences BSC Microbiology BSC Microbiology BSC Plant Science BSC Zoology BSC Agric Animal Science BSCAgric Option: Applied Plant and Soil Sciences BSCAgric Plant Pathology Service modules Faculty of Engineering, Built Environment and Information Technology Faculty of Education Prerequisites GTS 161 GS Contact time fortnightly practicals, 2 lectures per week Language of tuition English Academic organisation	Faculty	Faculty of Natural and Agricultural Sciences
BSc Biological Sciences BSc Biological Sciences BSc Biotechnology BSc Ecology BSc Ecology BSc Entomology BSc Food Science BSc Genetics BSc Human Genetics BSc Human Physiology BSc Human Physiology BSc Medical Sciences BSc Microbiology BSc Microbiology BSc Plant Science BSc Zoology BScAgric Animal Science BScAgric Option: Applied Plant and Soil Sciences BScAgric Option: Applied Plant and Information Technology Faculty of Engineering, Built Environment and Information Technology Faculty of Education Prerequisites GTS 161 GS Contact time fortnightly practicals, 2 lectures per week Language of tuition Genetics	Module credits	12.00
BSc Biological Sciences BSc Biotechnology BSc Ecology BSc Entomology BSc Entomology BSc Food Science BSc Genetics BSc Human Genetics BSc Human Physiology BSc Human Physiology BSc Medical Sciences BSc Microbiology BSc Microbiology BSc Plant Science BSc Zoology BSc Apric Animal Science BScAgric Option: Applied Plant and Soil Sciences BScAgric Plant Pathology Service modules Faculty of Engineering, Built Environment and Information Technology Faculty of Education Prerequisites GTS 161 GS Contact time fortnightly practicals, 2 lectures per week Language of tuition Genetics	Programmes	BSc Information Technology Information and Knowledge Systems
BSc Biotechnology BSc Ecology BSc Entomology BSc Food Science BSc Genetics BSc Human Genetics BSc Human Physiology BSc Human Physiology, Genetics and Psychology BSc Medical Sciences BSc Microbiology BSc Plant Science BSc Zoology BSc Plant Science BSc Zoology BScAgric Animal Science BScAgric Option: Applied Plant and Soil Sciences BScAgric Plant Pathology Service modules Faculty of Engineering, Built Environment and Information Technology Faculty of Education Prerequisites GTS 161 GS Contact time fortnightly practicals, 2 lectures per week Language of tuition English Academic organisation Genetics		BSc Biochemistry
BSc Ecology BSc Entomology BSc Food Science BSc Genetics BSc Human Genetics BSc Human Physiology BSc Human Physiology, Genetics and Psychology BSc Medical Sciences BSc Microbiology BSc Plant Science BSc Zoology BSc Zoology BScAgric Animal Science BScAgric Option: Applied Plant and Soil Sciences BScAgric Plant Pathology Service modules Faculty of Engineering, Built Environment and Information Technology Faculty of Education Prerequisites GTS 161 GS Contact time fortnightly practicals, 2 lectures per week Language of tuition English Academic organisation Genetics		BSc Biological Sciences
BSc Entomology BSc Food Science BSc Genetics BSc Human Genetics BSc Human Physiology BSc Human Physiology, Genetics and Psychology BSc Medical Sciences BSc Microbiology BSc Plant Science BSc Zoology BSc Zoology BScAgric Animal Science BScAgric Option: Applied Plant and Soil Sciences BScAgric Plant Pathology Service modules Faculty of Engineering, Built Environment and Information Technology Faculty of Education Prerequisites GTS 161 GS Contact time fortnightly practicals, 2 lectures per week Language of tuition English Academic organisation		BSc Biotechnology
BSc Food Science BSc Genetics BSc Human Genetics BSc Human Physiology BSc Human Physiology, Genetics and Psychology BSc Medical Sciences BSc Microbiology BSc Plant Science BSc Zoology BScAgric Animal Science BScAgric Option: Applied Plant and Soil Sciences BScAgric Plant Pathology Service modules Faculty of Engineering, Built Environment and Information Technology Faculty of Education Prerequisites GTS 161 GS Contact time fortnightly practicals, 2 lectures per week Language of tuition English Academic organisation Genetics		BSc Ecology
BSc Human Genetics BSc Human Physiology BSc Human Physiology, Genetics and Psychology BSc Medical Sciences BSc Microbiology BSc Plant Science BSc Zoology BScAgric Animal Science BScAgric Option: Applied Plant and Soil Sciences BScAgric Plant Pathology Service modules Faculty of Engineering, Built Environment and Information Technology Faculty of Education Prerequisites GTS 161 GS Contact time fortnightly practicals, 2 lectures per week Language of tuition Genetics		BSc Entomology
BSc Human Genetics BSc Human Physiology BSc Human Physiology, Genetics and Psychology BSc Medical Sciences BSc Microbiology BSc Plant Science BSc Zoology BSc Apric Animal Science BScAgric Option: Applied Plant and Soil Sciences BScAgric Plant Pathology Service modules Faculty of Engineering, Built Environment and Information Technology Faculty of Education Prerequisites GTS 161 GS Contact time fortnightly practicals, 2 lectures per week Language of tuition English Academic organisation		BSc Food Science
BSc Human Physiology BSc Human Physiology, Genetics and Psychology BSc Medical Sciences BSc Microbiology BSc Plant Science BSc Zoology BScAgric Animal Science BScAgric Option: Applied Plant and Soil Sciences BScAgric Plant Pathology Service modules Faculty of Engineering, Built Environment and Information Technology Faculty of Education Prerequisites GTS 161 GS Contact time fortnightly practicals, 2 lectures per week Language of tuition Academic organisation Genetics		BSc Genetics
BSc Human Physiology, Genetics and Psychology BSc Medical Sciences BSc Microbiology BSc Plant Science BSc Zoology BScAgric Animal Science BScAgric Option: Applied Plant and Soil Sciences BScAgric Plant Pathology Service modules Faculty of Engineering, Built Environment and Information Technology Faculty of Education Prerequisites GTS 161 GS Contact time fortnightly practicals, 2 lectures per week Language of tuition English Academic organisation Genetics		BSc Human Genetics
BSc Medical Sciences BSc Microbiology BSc Plant Science BSc Zoology BScAgric Animal Science BScAgric Option: Applied Plant and Soil Sciences BScAgric Plant Pathology Service modules Faculty of Engineering, Built Environment and Information Technology Faculty of Education Prerequisites GTS 161 GS Contact time fortnightly practicals, 2 lectures per week Language of tuition English Academic organisation Genetics		BSc Human Physiology
BSc Microbiology BSc Plant Science BSc Zoology BScAgric Animal Science BScAgric Option: Applied Plant and Soil Sciences BScAgric Plant Pathology Service modules Faculty of Engineering, Built Environment and Information Technology Faculty of Education Prerequisites GTS 161 GS Contact time fortnightly practicals, 2 lectures per week Language of tuition English Academic organisation Genetics		BSc Human Physiology, Genetics and Psychology
BSc Plant Science BSc Zoology BScAgric Animal Science BScAgric Option: Applied Plant and Soil Sciences BScAgric Plant Pathology Service modules Faculty of Engineering, Built Environment and Information Technology Faculty of Education Prerequisites GTS 161 GS Contact time fortnightly practicals, 2 lectures per week Language of tuition English Academic organisation Genetics		BSc Medical Sciences
BSc Zoology BScAgric Animal Science BScAgric Option: Applied Plant and Soil Sciences BScAgric Plant Pathology Service modules Faculty of Engineering, Built Environment and Information Technology Faculty of Education Prerequisites GTS 161 GS Contact time fortnightly practicals, 2 lectures per week Language of tuition English Academic organisation Genetics		BSc Microbiology
BScAgric Animal Science BScAgric Option: Applied Plant and Soil Sciences BScAgric Plant Pathology Service modules Faculty of Engineering, Built Environment and Information Technology Faculty of Education Prerequisites GTS 161 GS Contact time fortnightly practicals, 2 lectures per week Language of tuition English Academic organisation Genetics		BSc Plant Science
BScAgric Option: Applied Plant and Soil Sciences BScAgric Plant Pathology Service modules Faculty of Engineering, Built Environment and Information Technology Faculty of Education Prerequisites GTS 161 GS Contact time fortnightly practicals, 2 lectures per week Language of tuition English Academic organisation Genetics		BSc Zoology
BScAgric Plant Pathology Faculty of Engineering, Built Environment and Information Technology Faculty of Education Prerequisites GTS 161 GS Contact time fortnightly practicals, 2 lectures per week Language of tuition English Academic organisation Genetics		BScAgric Animal Science
Service modules Faculty of Engineering, Built Environment and Information Technology Faculty of Education Prerequisites GTS 161 GS Contact time fortnightly practicals, 2 lectures per week Language of tuition English Academic organisation Genetics		BScAgric Option: Applied Plant and Soil Sciences
Faculty of Education Prerequisites GTS 161 GS Contact time fortnightly practicals, 2 lectures per week Language of tuition English Academic organisation Genetics		BScAgric Plant Pathology
Prerequisites GTS 161 GS Contact time fortnightly practicals, 2 lectures per week Language of tuition English Academic organisation Genetics	Service modules	Faculty of Engineering, Built Environment and Information Technology
Contact time fortnightly practicals, 2 lectures per week Language of tuition English Academic organisation Genetics		Faculty of Education
Language of tuition English Academic organisation Genetics	Prerequisites	GTS 161 GS
Academic organisation Genetics	Contact time	fortnightly practicals, 2 lectures per week
	Language of tuition	English
Period of presentation Semester 1	Academic organisation	Genetics
	Period of presentation	Semester 1



Module content

Chemical nature of DNA. Replication transcription, RNA processing and translation. Control of gene expression in prokaryotes and eukaryotes. Recombinant DNA technology and its applications in gene analysis and manipulation.

The information published here is subject to change and may be amended after the publication of this information. The General Regulations (G Regulations) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the General Rules section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.